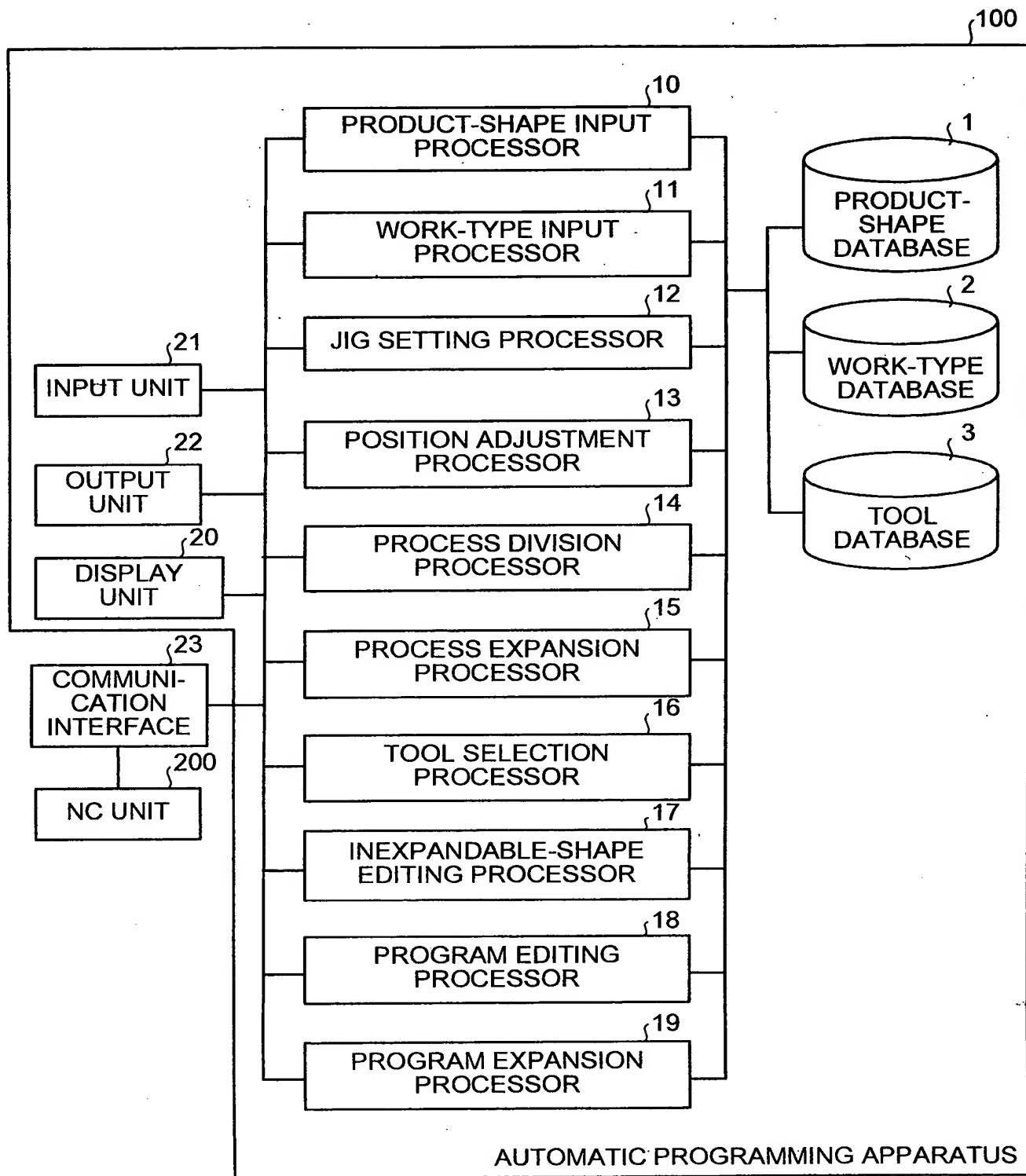


FIG. 1



## FIG.2

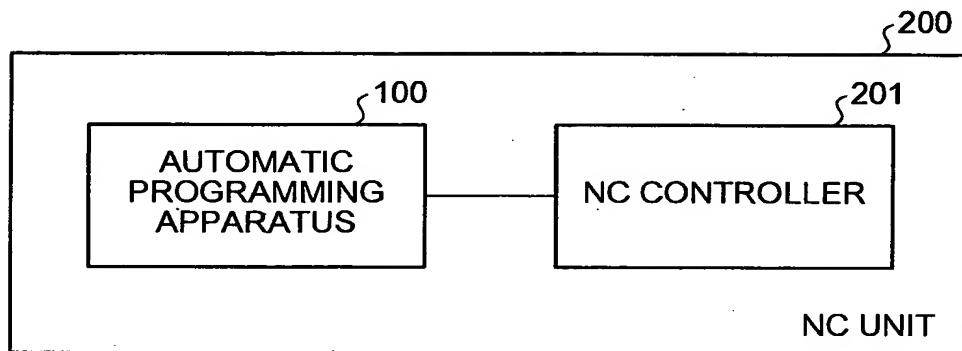
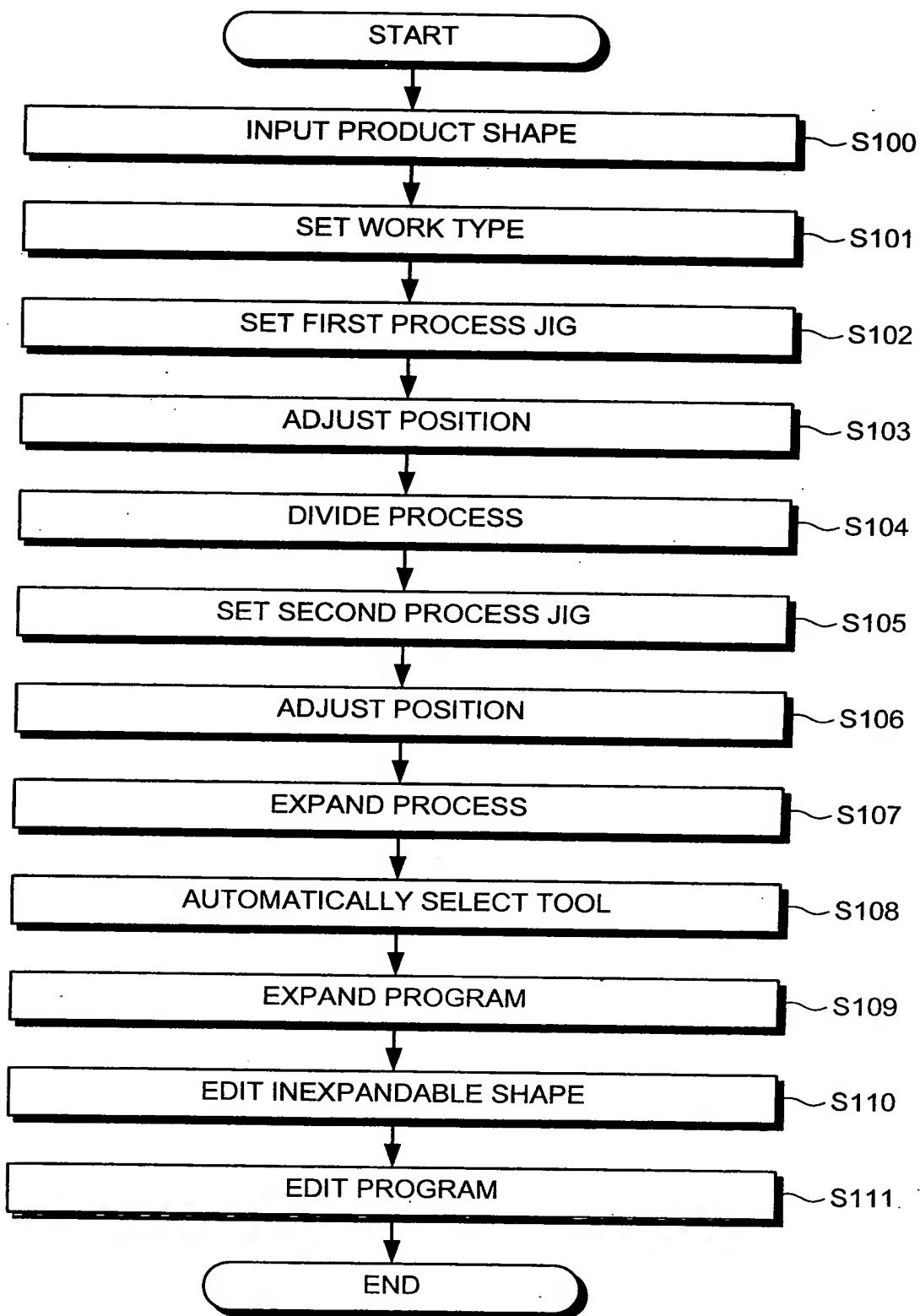


FIG.3



**FIG.4**

## MENU SELECTION MAIN SCREEN

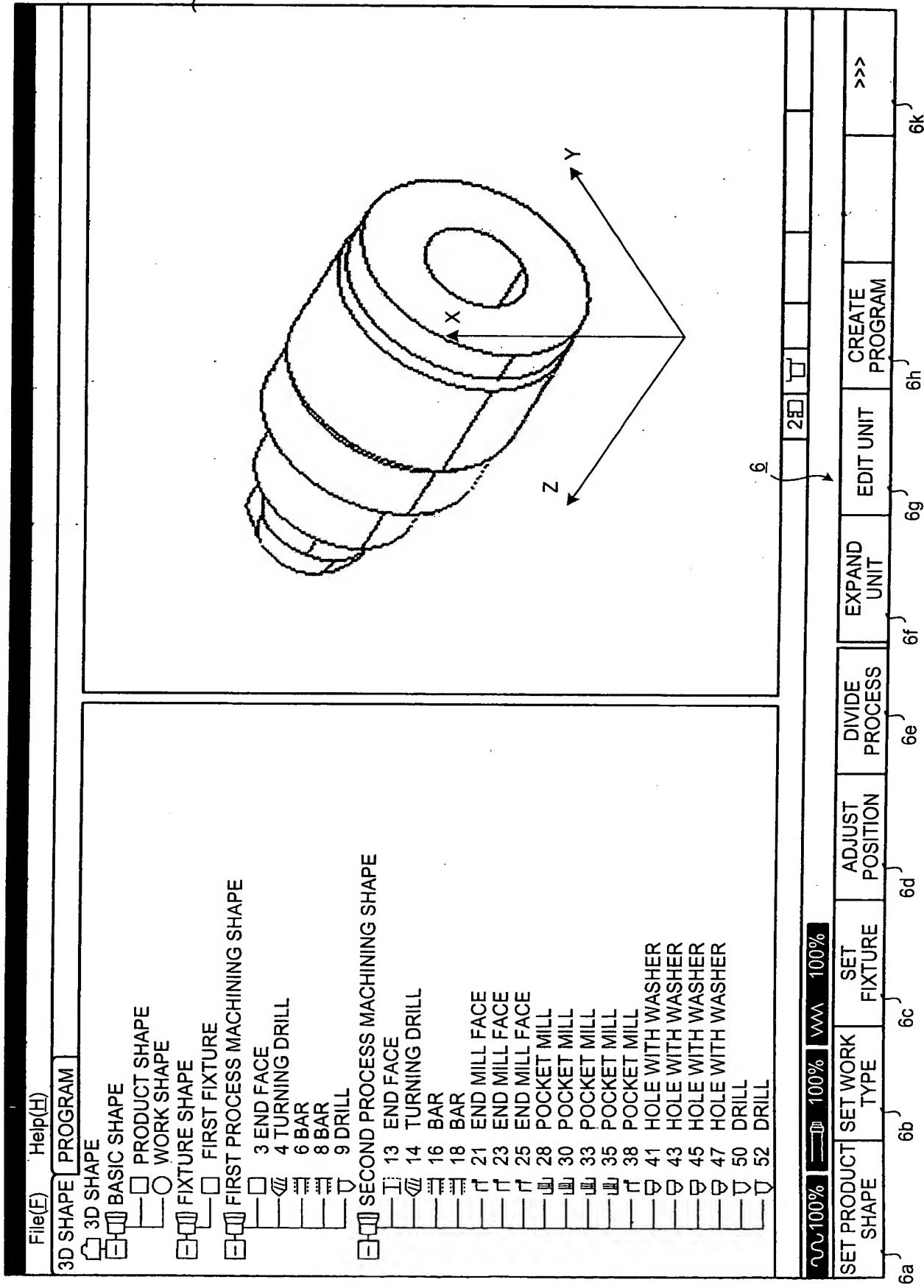
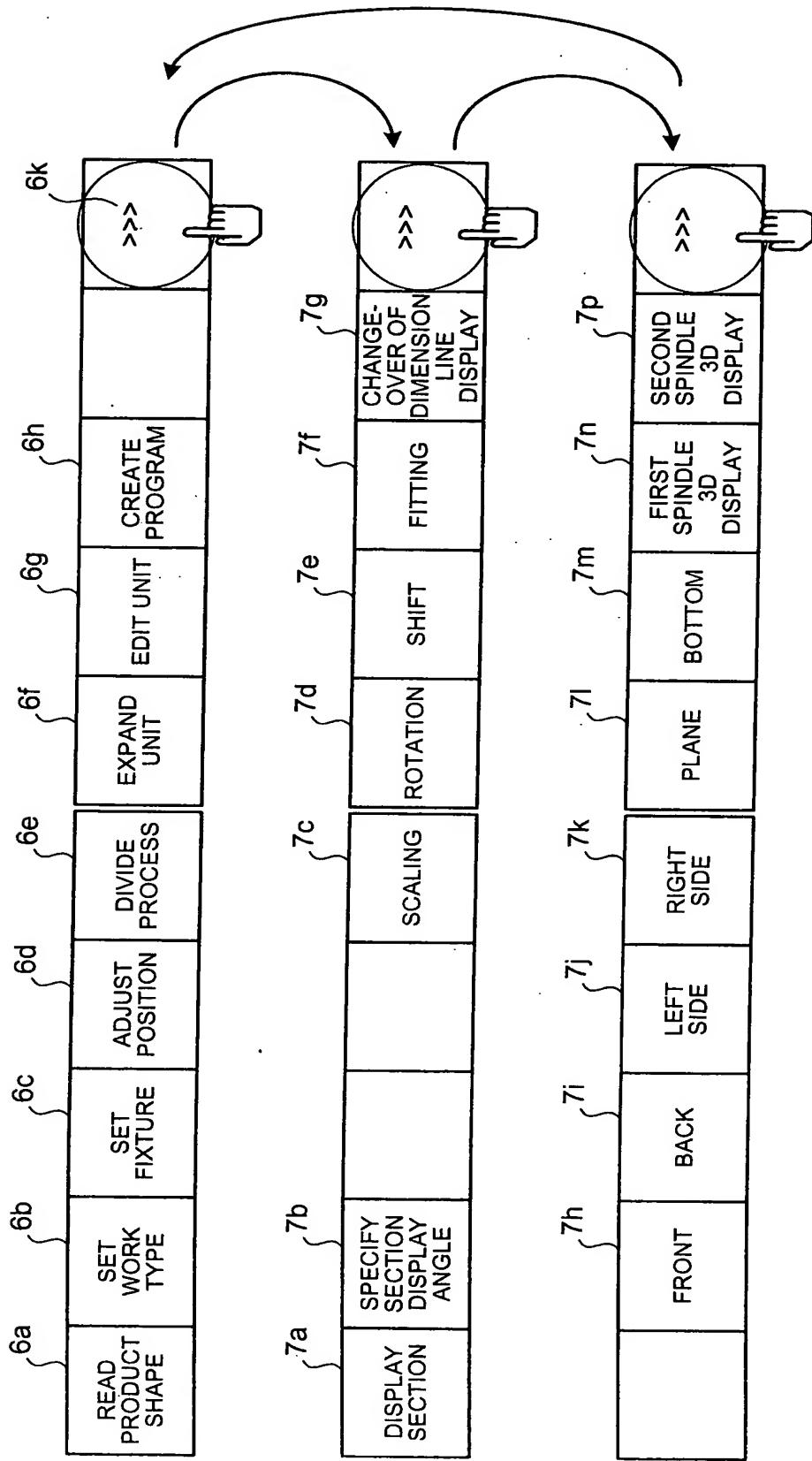


FIG.5



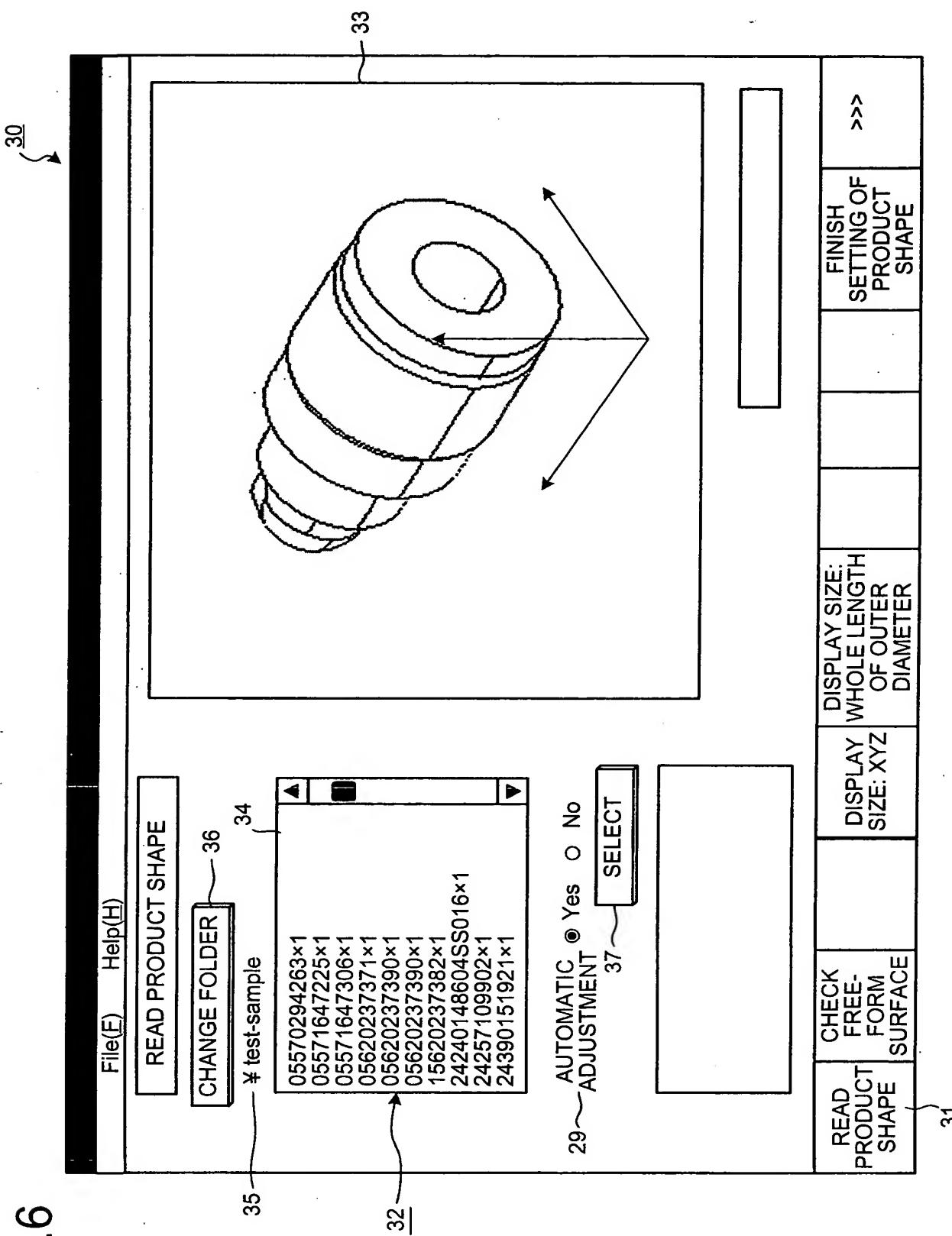


FIG.7

<b>WORK DATABASE</b>	<b>SET PARTIAL WORK</b>	<b>READ WORK MODEL</b>	<b>SET WORK MATERIAL</b>	<b>CHANGE MACHINING ALLOWANCE</b>	<b>EDIT</b>
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**WORK TYPE SETTING**

<b>PRODUCT SHAPE</b>	<input type="text" value="100"/>	<b>X</b>	<b>Y</b>	<b>Z</b>	<input type="text" value="100"/>	<input type="text" value="100"/>
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**WORK TYPE SETTING**

No.	WORK MATERIAL	TYPE	OUTER DIAMETER	INNER DIAMETER	LENGTH	
1	A7075	ROUND BAR	110.000	0.000	130.000	
2	A5056	ROUND BAR	110.000	0.000	130.000	
3	A7075	ROUND BAR	120.000	0.000	130.000	
4	A5056	ROUND BAR	120.000	0.000	130.000	
5	CBN STL	ROUND BAR	120.000	0.000	130.000	
6	STNLSS	ROUND BAR	130.000	0.000	130.000	
7	STNLSS	ROUND BAR	140.000	0.000	130.000	
8	A7075	ROUND BAR	150.000	10.000	130.000	
9	A7075	ROUND BAR	150.000	10.000	130.000	
10	A7075	ROUND BAR	150.000	10.000	130.000	
11	A7075	ROUND BAR	150.000	10.000	130.000	
12	A5056	ROUND BAR	120.000	0.000	130.000	

**WORK TYPE SETTING**

<input type="text" value="3"/>	<input type="text" value="OK"/>
--------------------------------	---------------------------------

## FIG.8

### WORK SHAPE

MATERIAL	TYPE	OUTER DIAMETER	INNER DIAMETER	.....
CBN STL	Cylinder	250	20	
CBN STL	Cylinder	250	30	
CBN STL	Cylinder	250	40	
CBN STL	Cylinder	250	50	
CBN STL	Cylinder	400		
CBN STL	Cylinder	400	30	
CBN STL	Cylinder	500		
CBN STL	Cylinder	800	70	
CBN STL	Cylinder	800	100	
CBN STL	Hexagon	300		
CBN STL	Hexagon	300		
CBN STL	Hexagon	400		

FIG.9

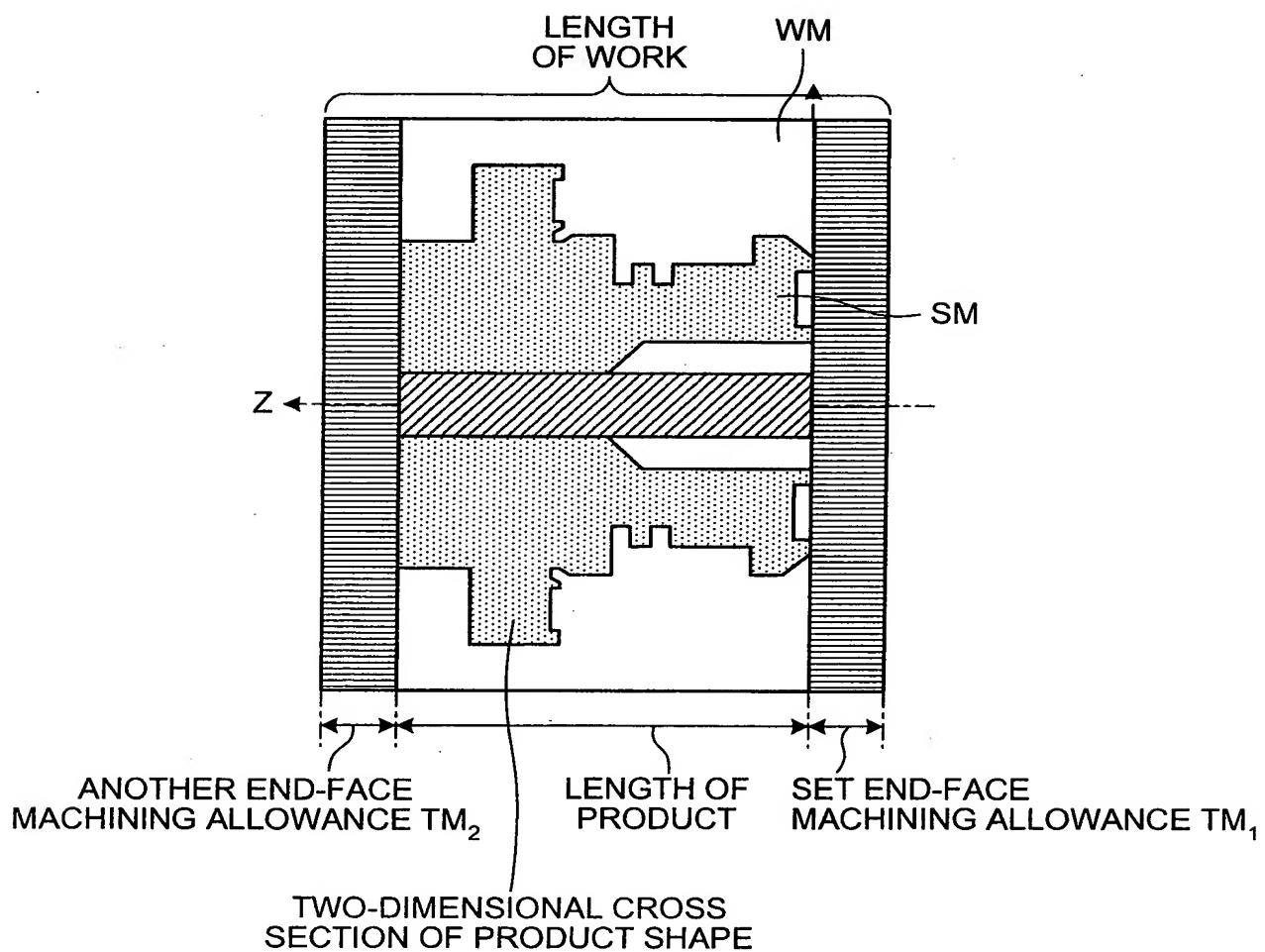


FIG.10

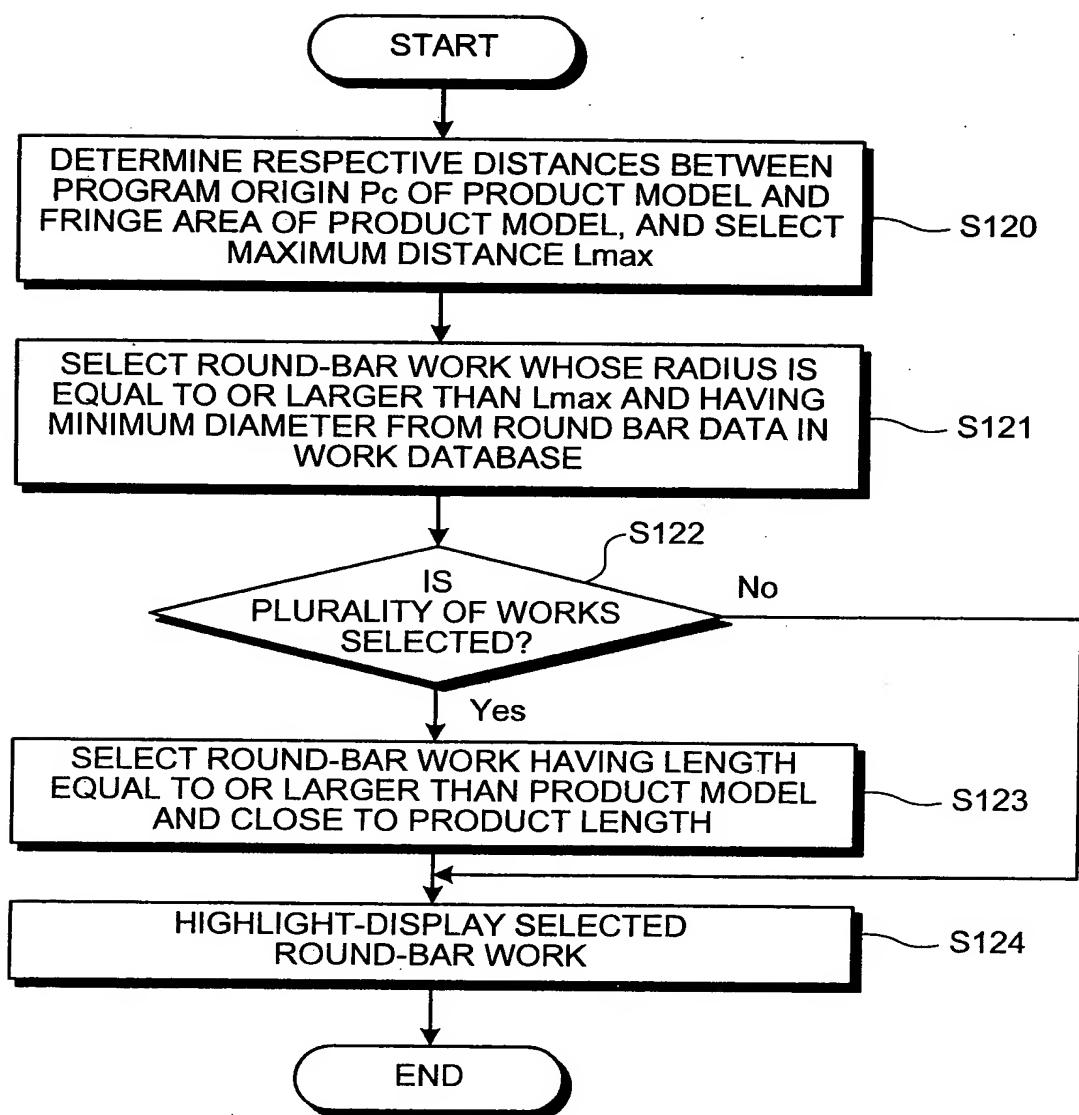


FIG.11

POINT ON PRODUCT SHAPE

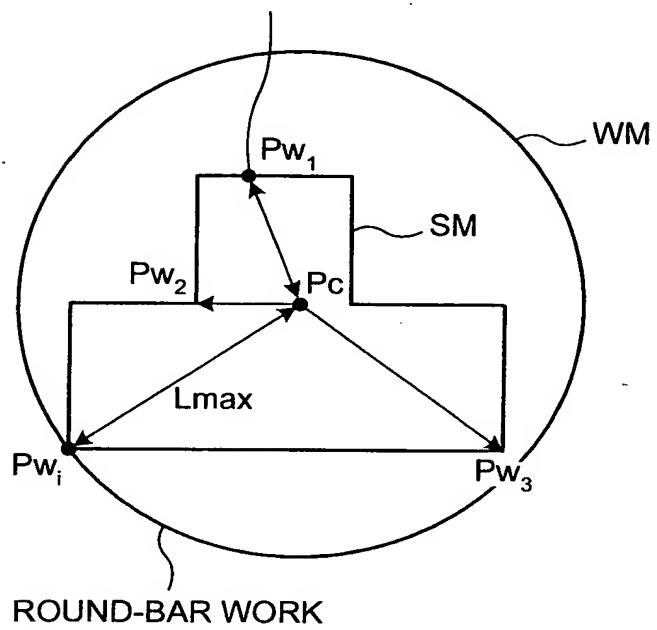


FIG.12

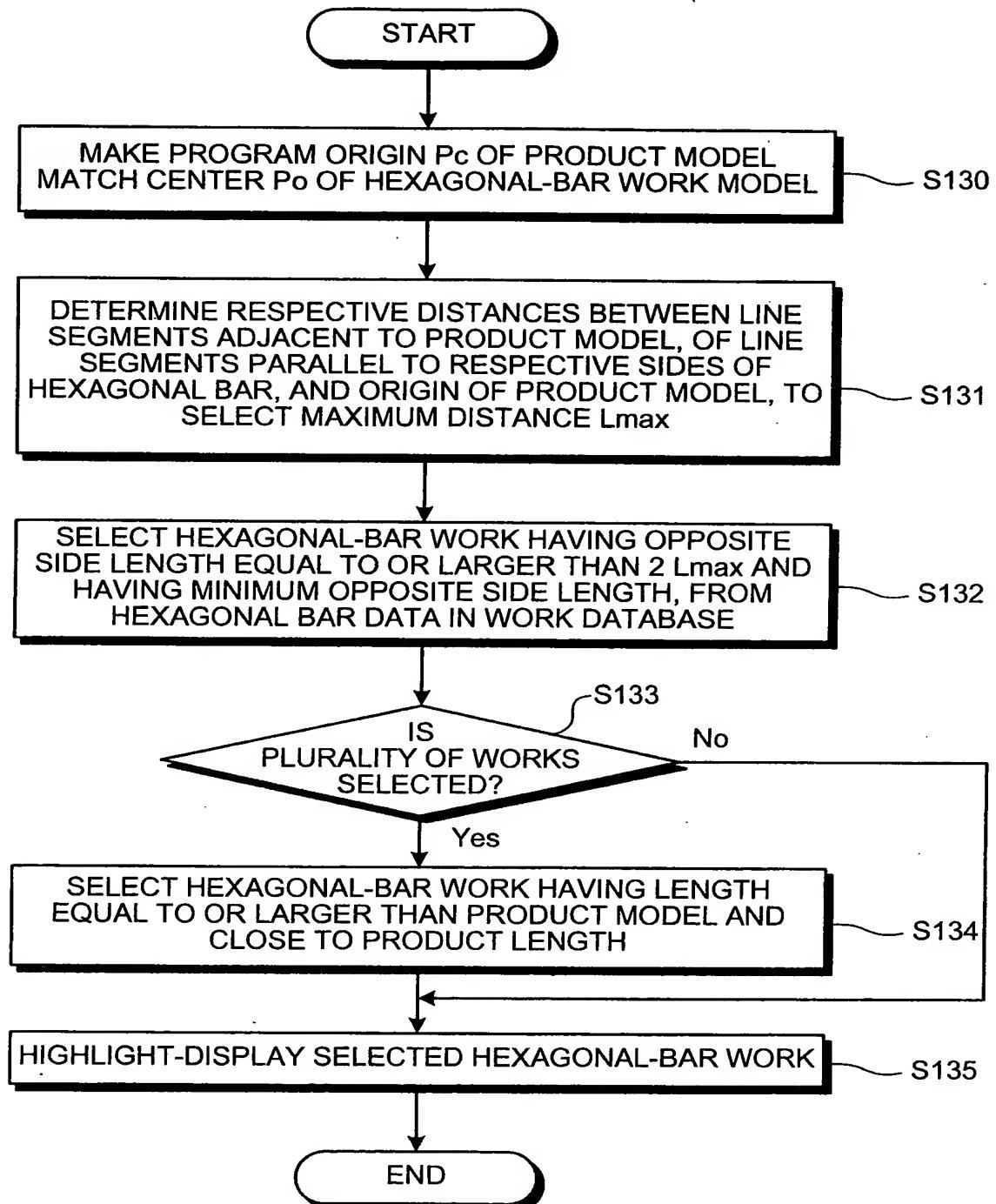


FIG. 13

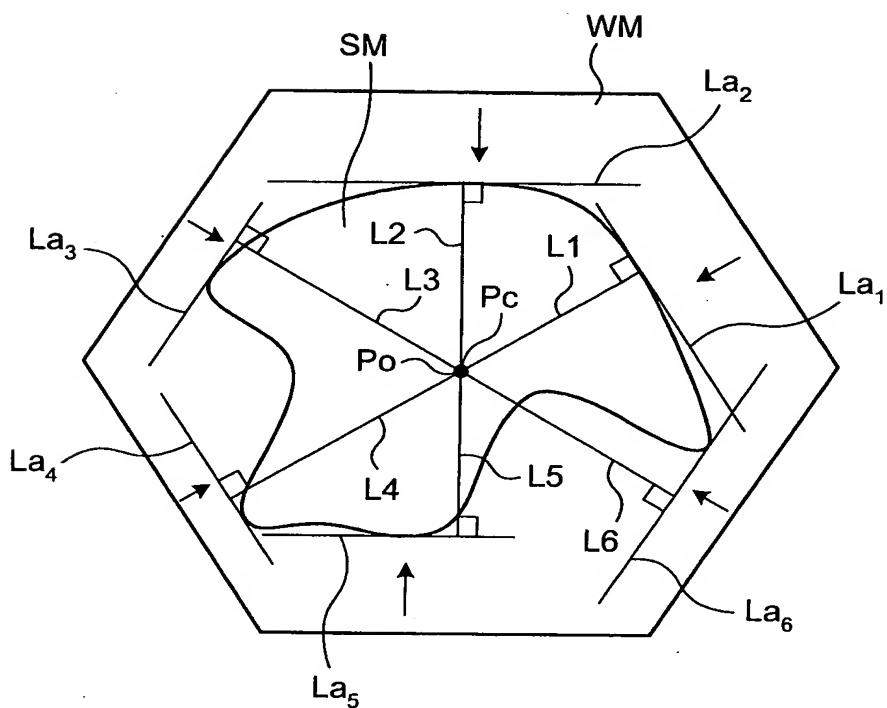


FIG.14

9  
9a  
9b  
9c  
9d  
9e  
9f  
9g

WORK DATABASE		SET PARTIAL WORK		READ WORK MODEL		SET WORK MATERIAL		EDIT		CHANGE MACHINING ALLOWANCE																																																																																																																									
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FIG.15

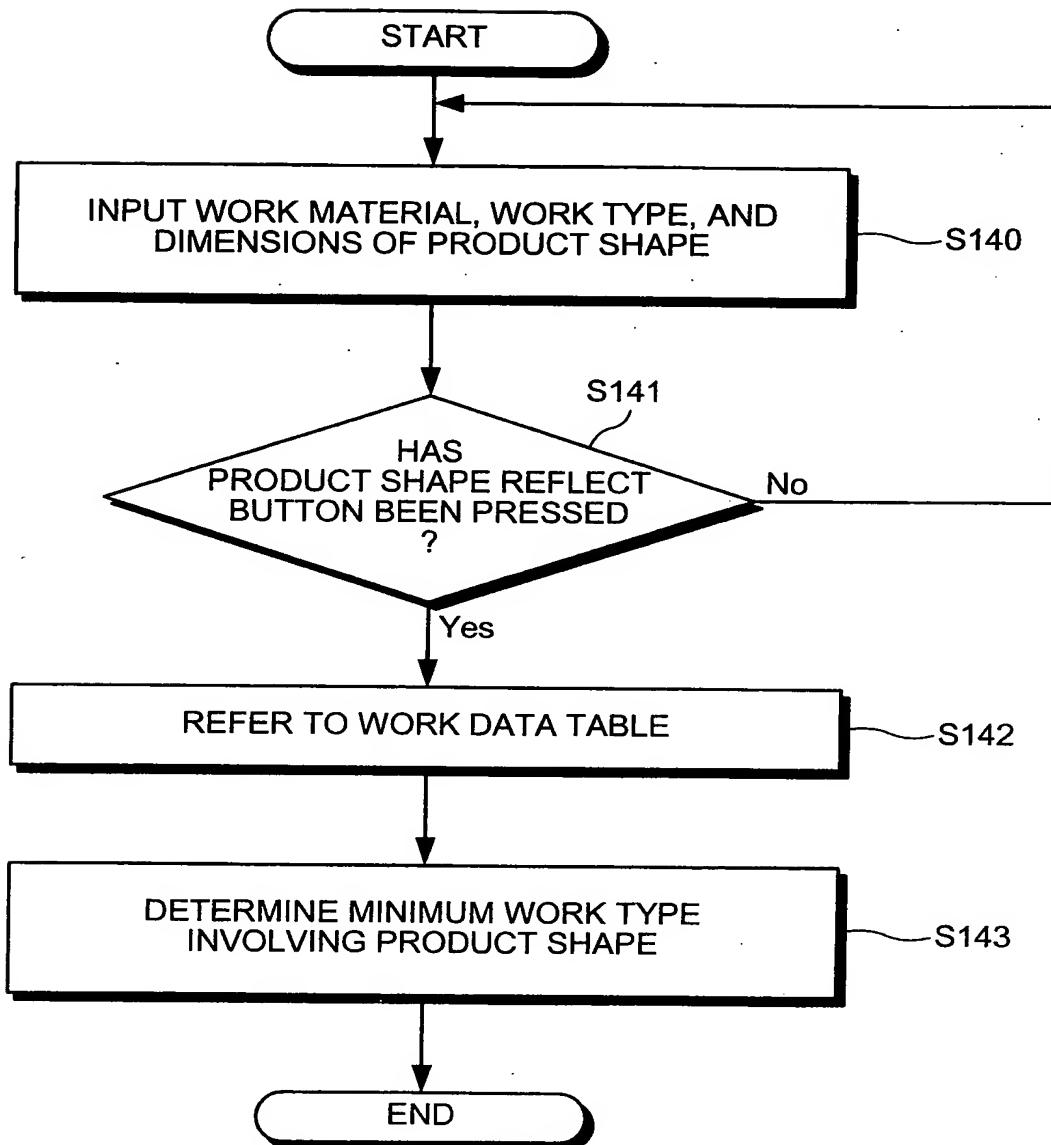
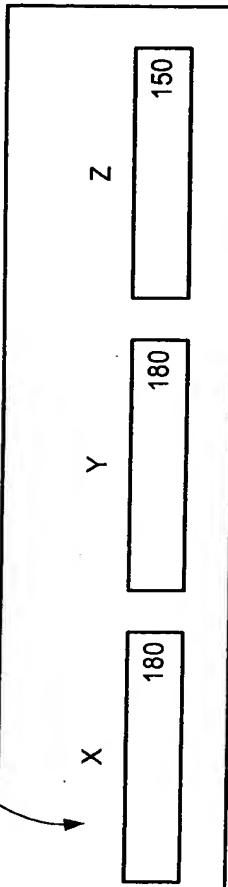
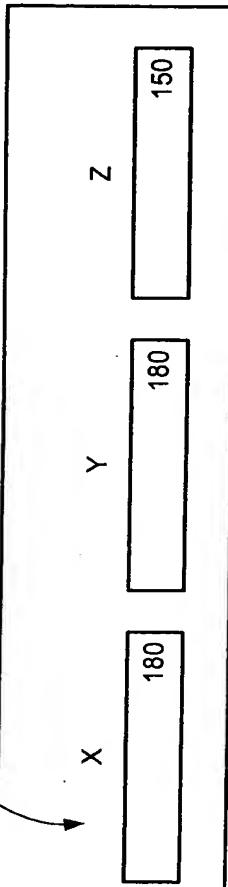


FIG.16

WORK TYPE SETTING	REFLECT PRODUCT SHAPE	43																											
	PRODUCT SHAPE	40																											
41	WORK MATERIAL	CBN STL																											
	WORK TYPE	ROUND BAR																											
42	OUTER DIAMETER	254.5584																											
	INNER DIAMETER	0																											
43	LENGTH	150																											
	END-FACE MACHINING ALLOWANCE	49																											
CREATE		58																											
																													
																													
<table border="1"> <tr> <td>CBN STL ROUND BAR</td> <td>OUTER DIAMETER 250.0</td> <td>INNER DIAMETER 20.0</td> </tr> <tr> <td>CBN STL ROUND BAR</td> <td>OUTER DIAMETER 250.0</td> <td>INNER DIAMETER 30.0</td> </tr> <tr> <td>CBN STL ROUND BAR</td> <td>OUTER DIAMETER 250.0</td> <td>INNER DIAMETER 40.0</td> </tr> <tr> <td>CBN STL ROUND BAR</td> <td>OUTER DIAMETER 250.0</td> <td>INNER DIAMETER 50.0</td> </tr> <tr> <td>CBN STL ROUND BAR</td> <td>OUTER DIAMETER 400.0</td> <td>INNER DIAMETER 0.0</td> </tr> <tr> <td>CBN STL ROUND BAR</td> <td>OUTER DIAMETER 400.0</td> <td>INNER DIAMETER 30.0</td> </tr> <tr> <td>CBN STL ROUND BAR</td> <td>OUTER DIAMETER 500.0</td> <td>INNER DIAMETER 0.0</td> </tr> <tr> <td>CBN STL ROUND BAR</td> <td>OUTER DIAMETER 800.0</td> <td>INNER DIAMETER 70.0</td> </tr> <tr> <td>CBN STL ROUND BAR</td> <td>OUTER DIAMETER 800.0</td> <td>INNER DIAMETER 100.0</td> </tr> </table>			CBN STL ROUND BAR	OUTER DIAMETER 250.0	INNER DIAMETER 20.0	CBN STL ROUND BAR	OUTER DIAMETER 250.0	INNER DIAMETER 30.0	CBN STL ROUND BAR	OUTER DIAMETER 250.0	INNER DIAMETER 40.0	CBN STL ROUND BAR	OUTER DIAMETER 250.0	INNER DIAMETER 50.0	CBN STL ROUND BAR	OUTER DIAMETER 400.0	INNER DIAMETER 0.0	CBN STL ROUND BAR	OUTER DIAMETER 400.0	INNER DIAMETER 30.0	CBN STL ROUND BAR	OUTER DIAMETER 500.0	INNER DIAMETER 0.0	CBN STL ROUND BAR	OUTER DIAMETER 800.0	INNER DIAMETER 70.0	CBN STL ROUND BAR	OUTER DIAMETER 800.0	INNER DIAMETER 100.0
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CBN STL ROUND BAR	OUTER DIAMETER 800.0	INNER DIAMETER 100.0																											

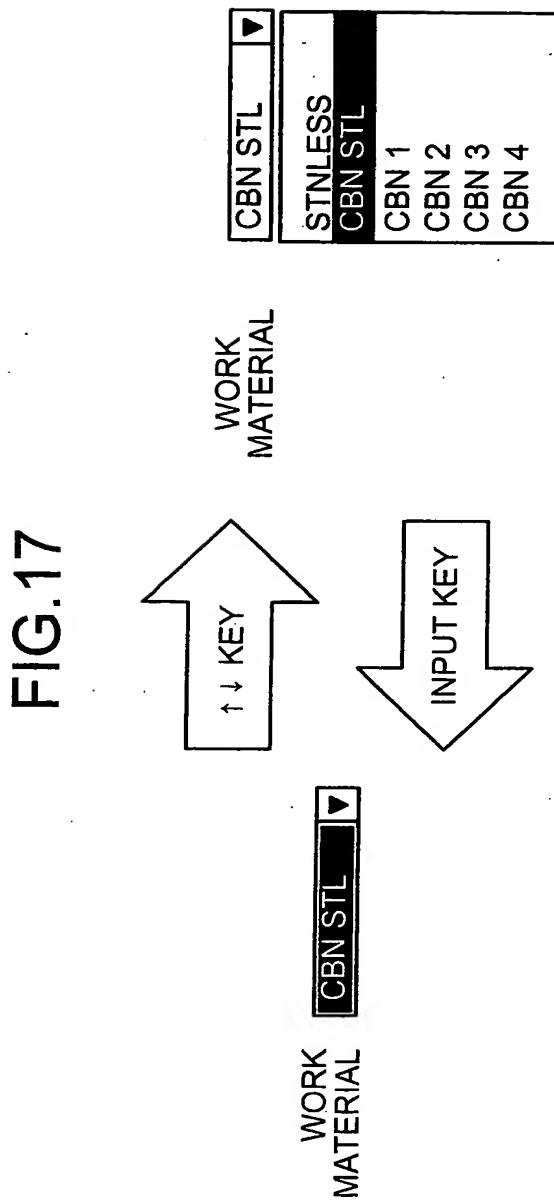


FIG. 18

41

WORK MATERIAL	CBN STL	▼
WORK TYPE	ROUND BAR	▼
OUTER DIAMETER	254.5584	
INNER DIAMETER	0	
LENGTH	150	
END-FACE MACHINING ALLOWANCE	0	

42

CBN STL ROUND BAR	OUTER DIAMETER 250.0	INNER DIAMETER 20.0
CBN STL ROUND BAR	OUTER DIAMETER 250.0	INNER DIAMETER 30.0
CBN STL ROUND BAR	OUTER DIAMETER 250.0	INNER DIAMETER 40.0
CBN STL ROUND BAR	OUTER DIAMETER 250.0	INNER DIAMETER 50.0
CBN STL ROUND BAR	OUTER DIAMETER 400.0	INNER DIAMETER 0.0
CBN STL ROUND BAR	OUTER DIAMETER 400.0	INNER DIAMETER 30.0
CBN STL ROUND BAR	OUTER DIAMETER 500.0	INNER DIAMETER 0.0
CBN STL ROUND BAR	OUTER DIAMETER 800.0	INNER DIAMETER 70.0
CBN STL ROUND BAR	OUTER DIAMETER 800.0	INNER DIAMETER 100.0

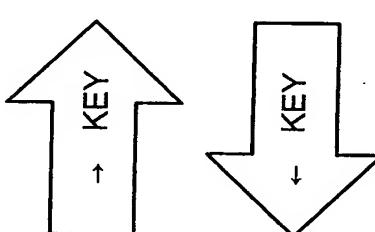


FIG.19

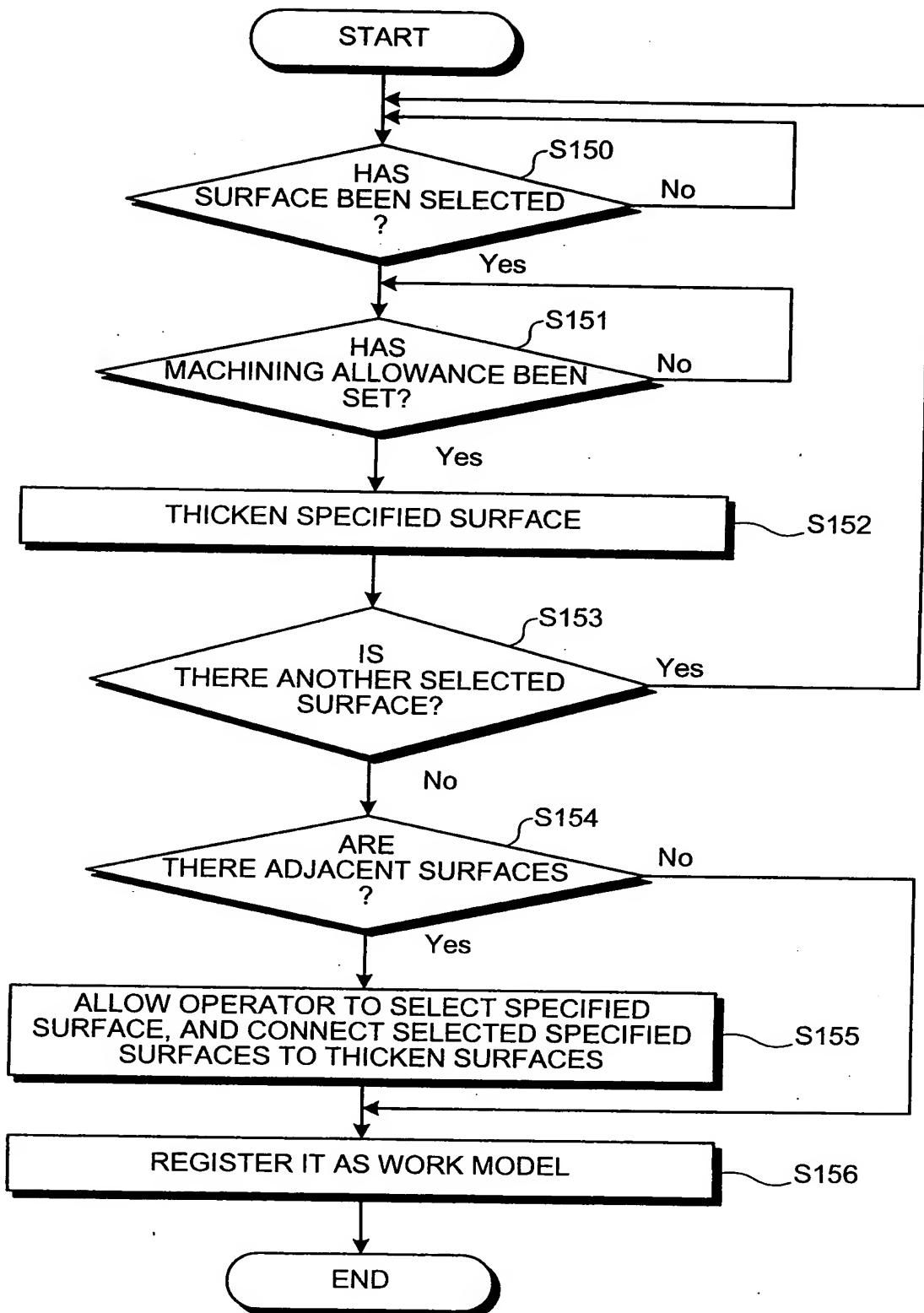


FIG.20

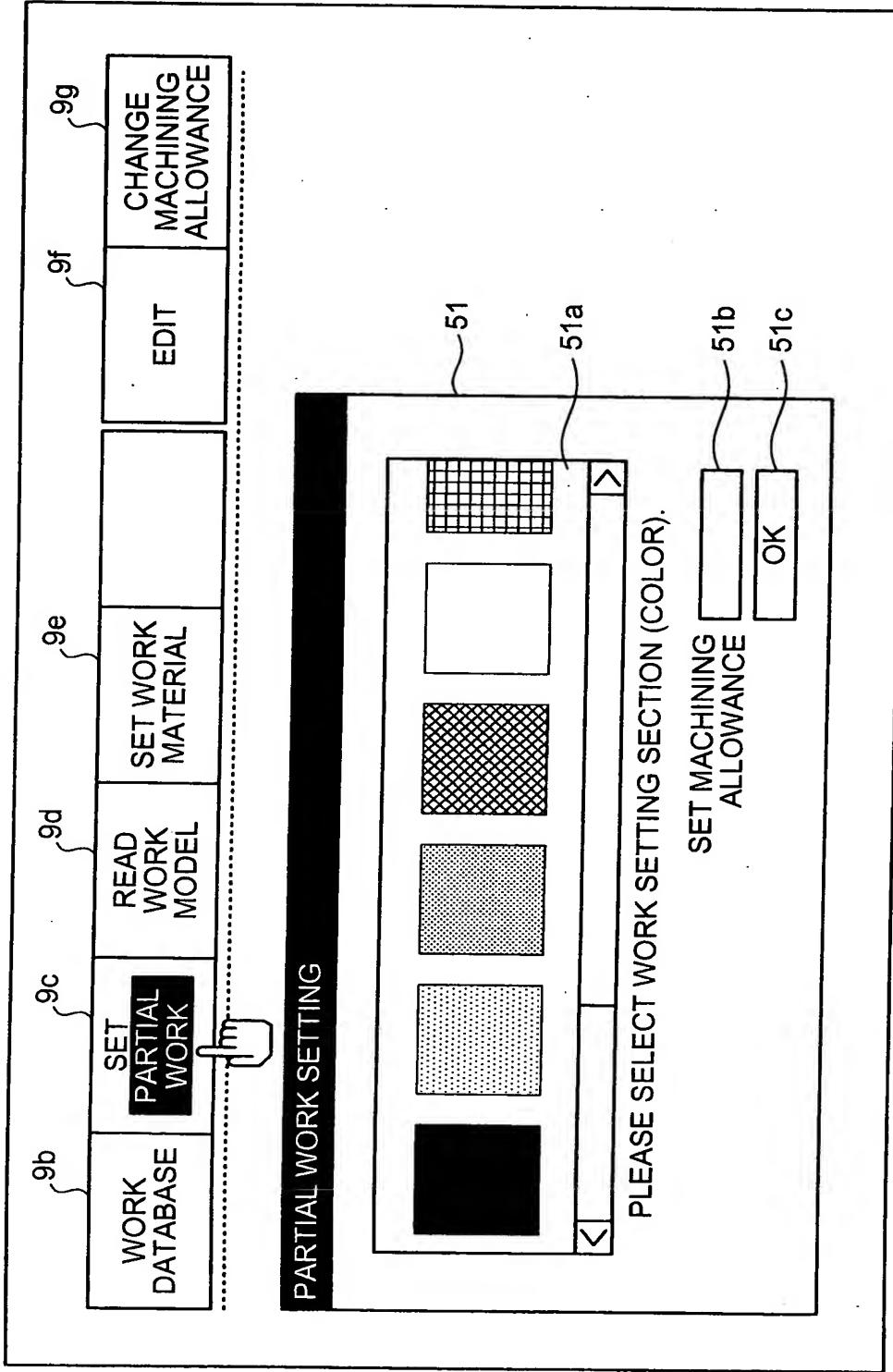


FIG.21

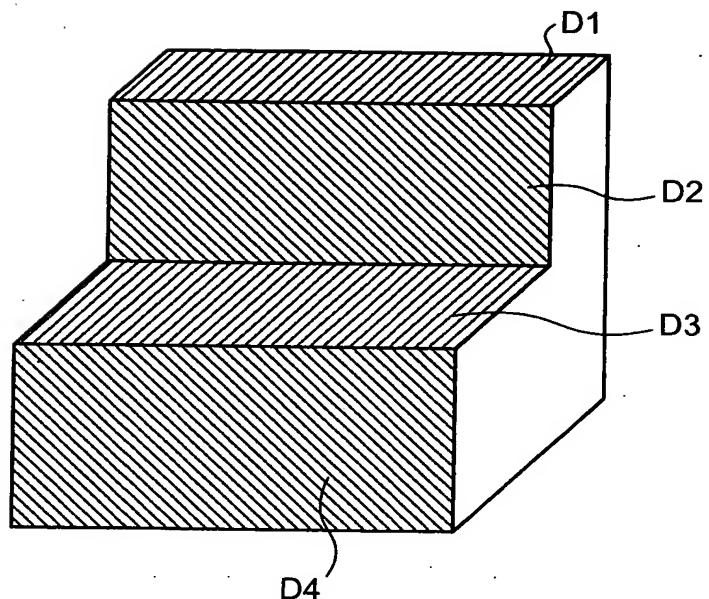


FIG.22

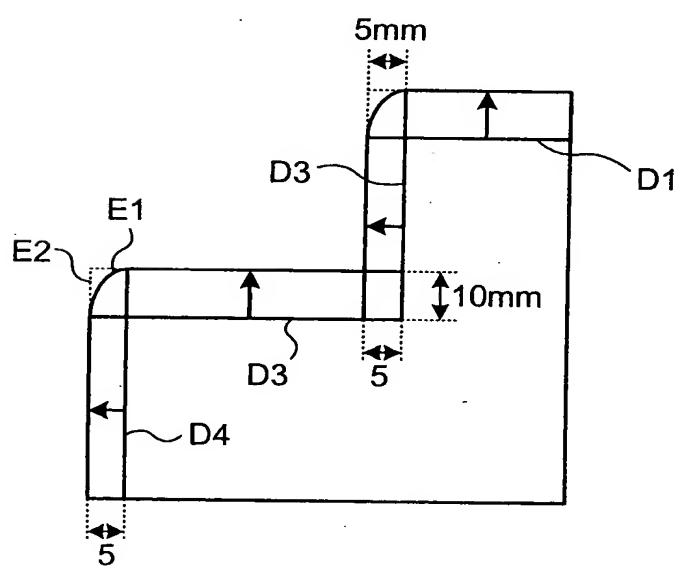


FIG.23

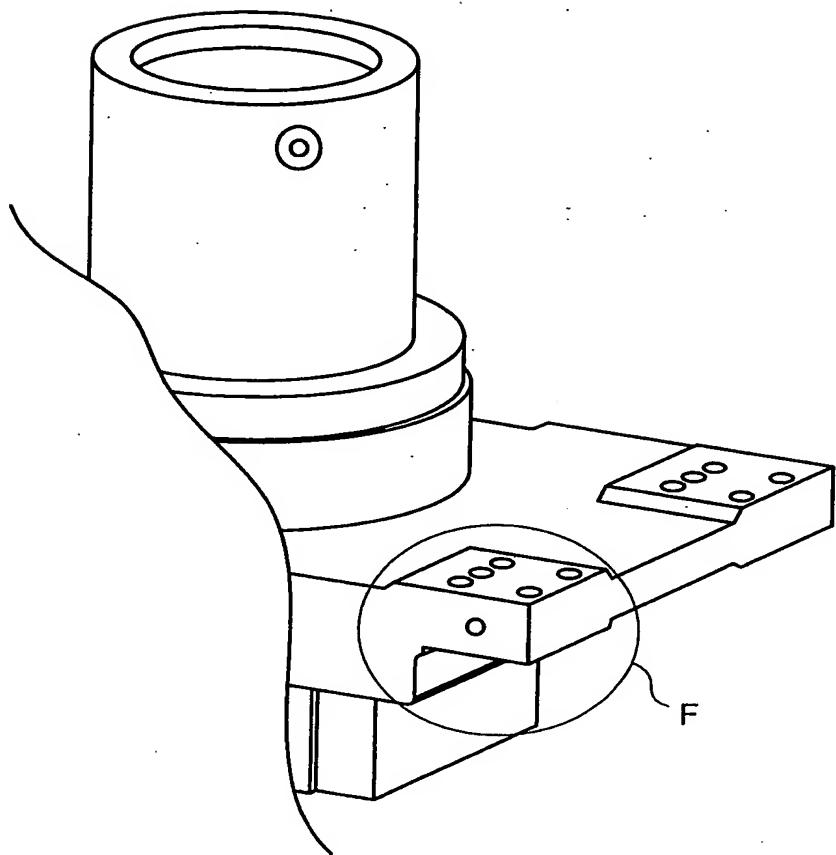


FIG.24

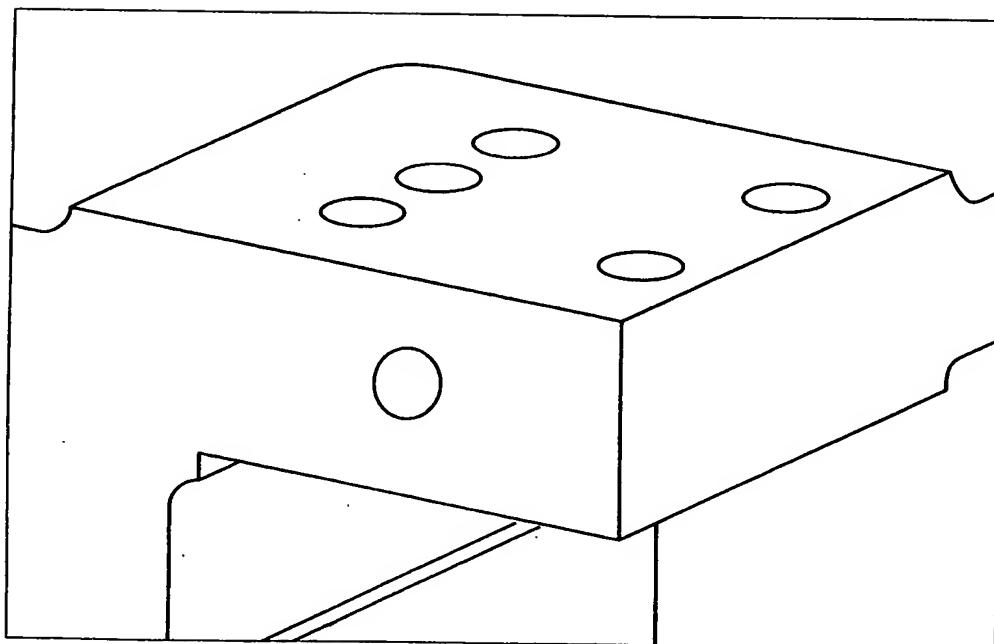


FIG.25

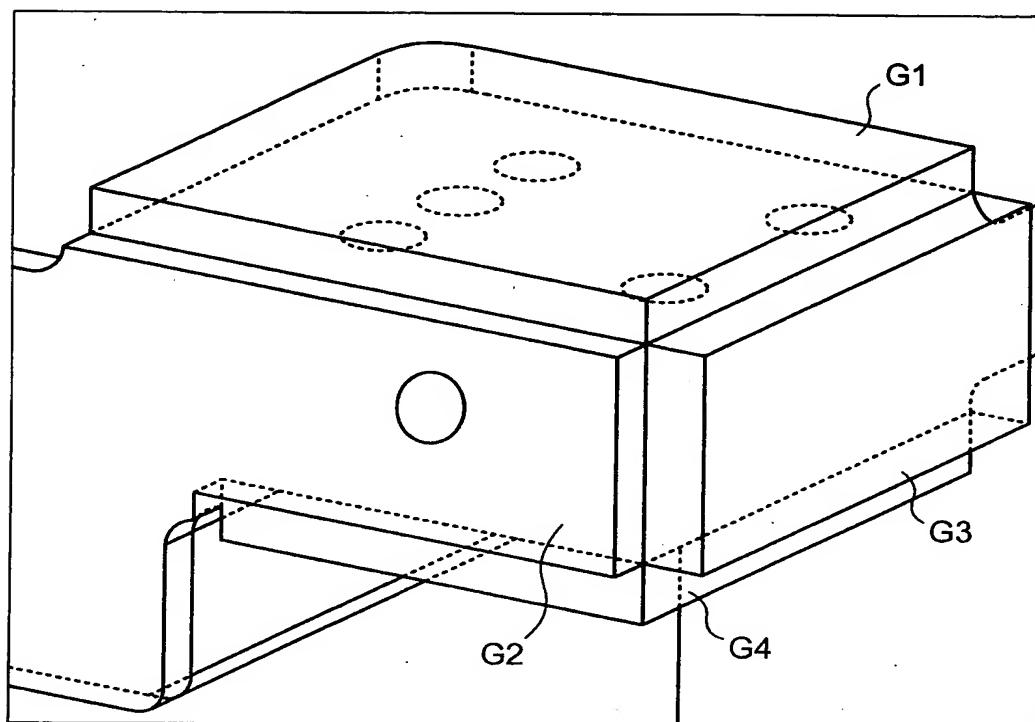




FIG.27

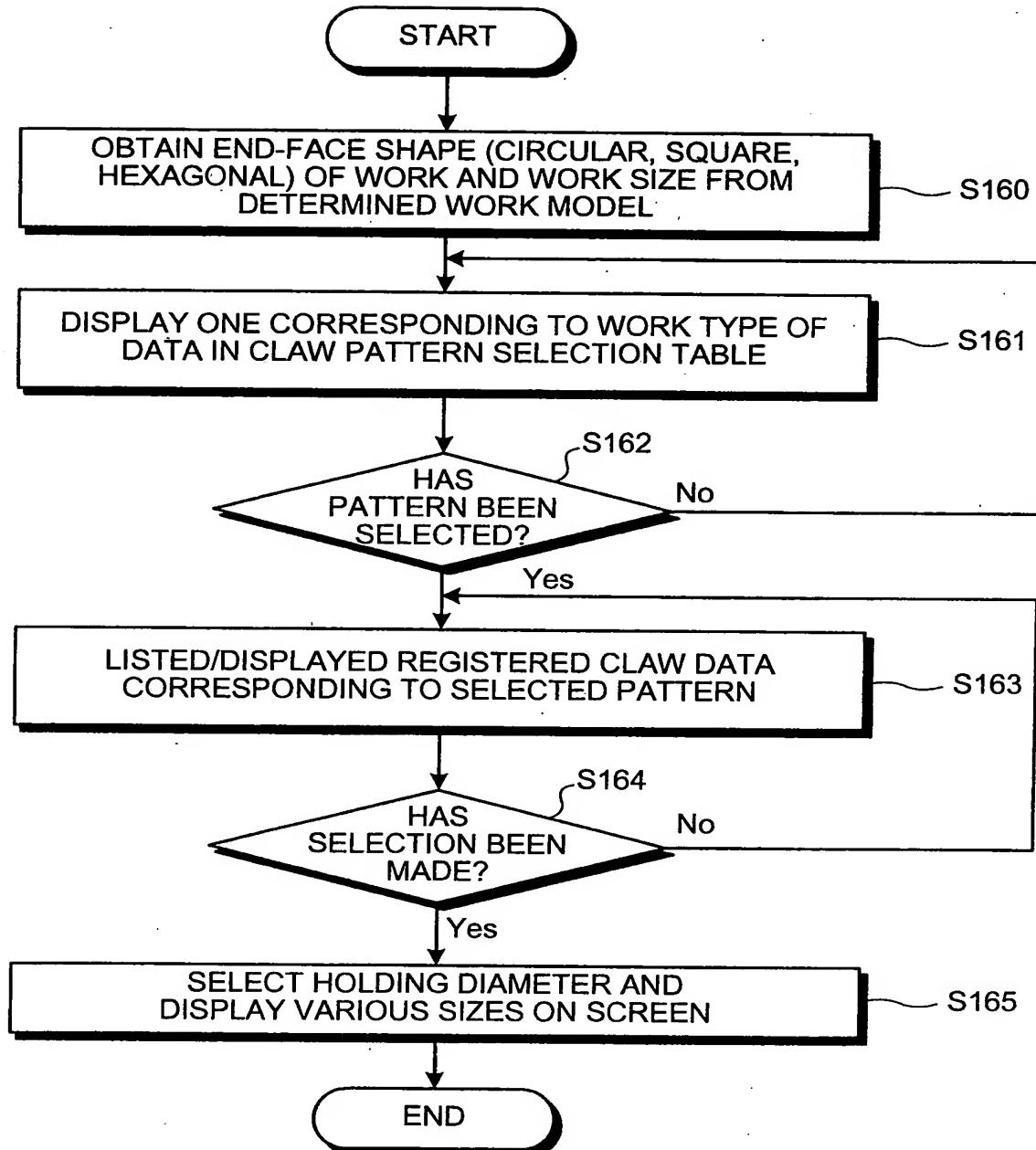


FIG.28

53

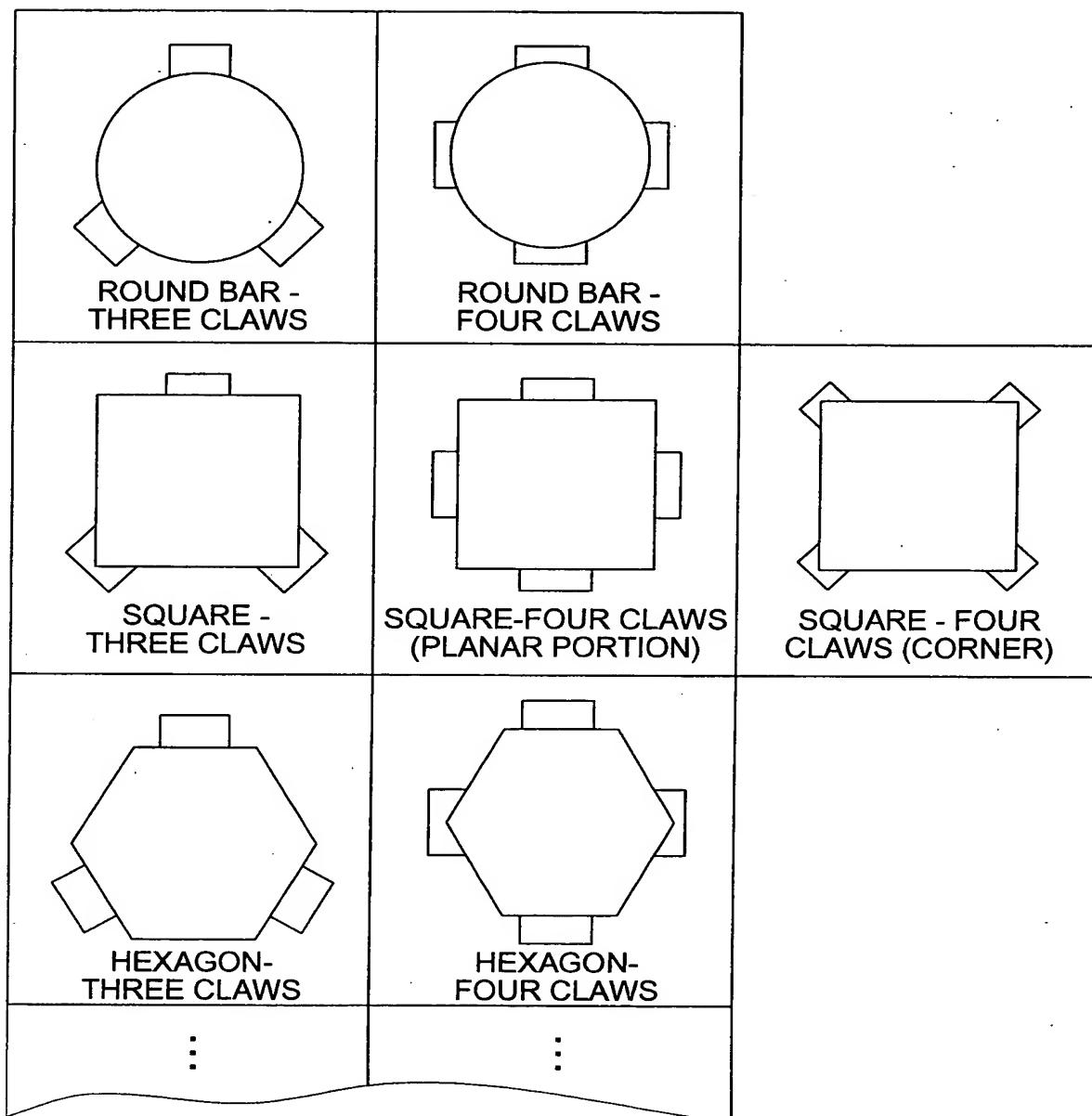


FIG.29

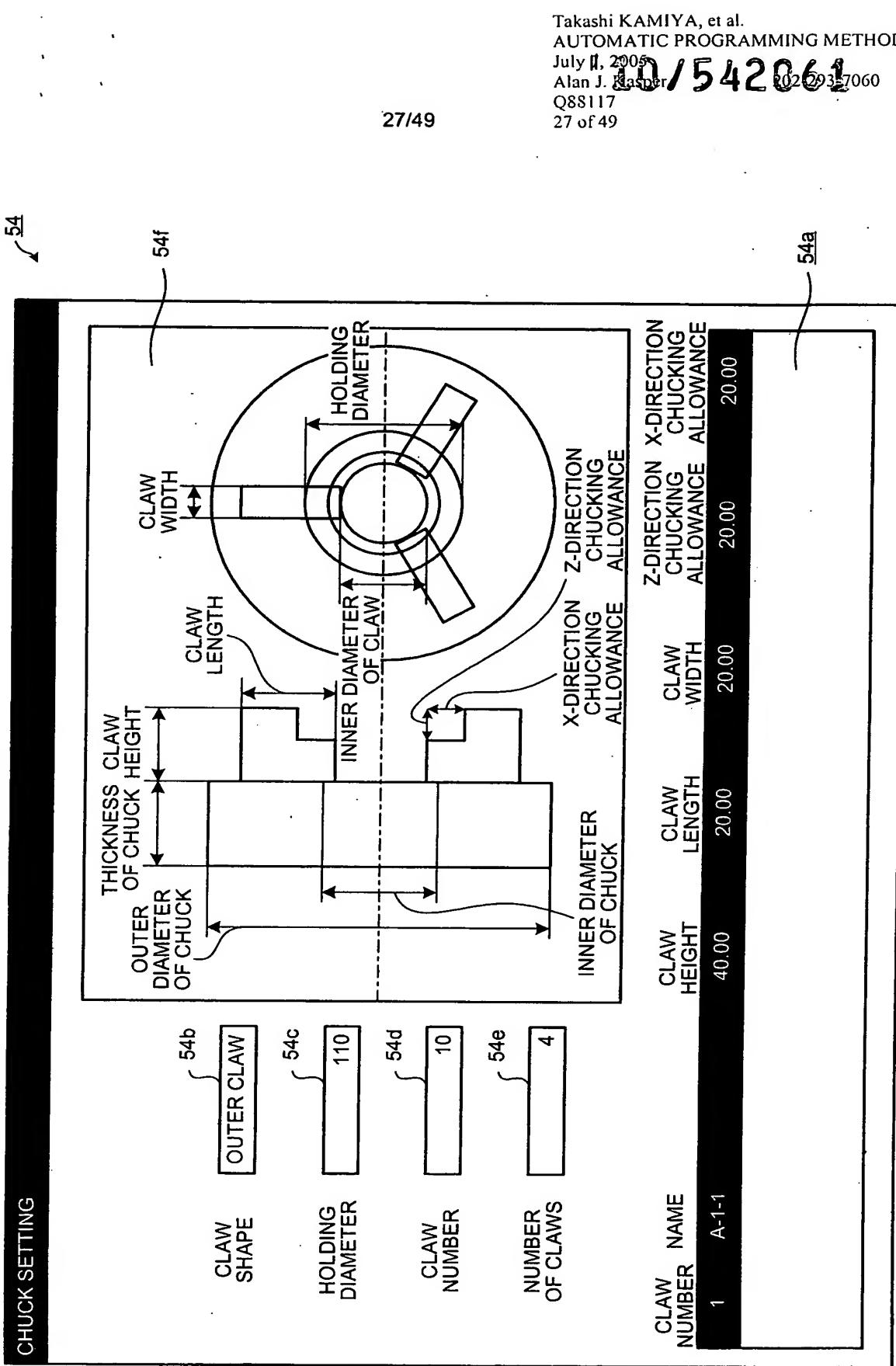


FIG.30

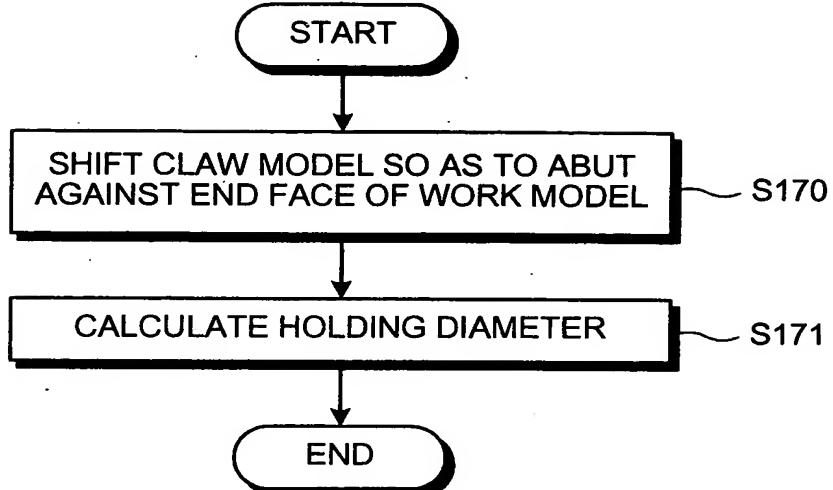


FIG.31

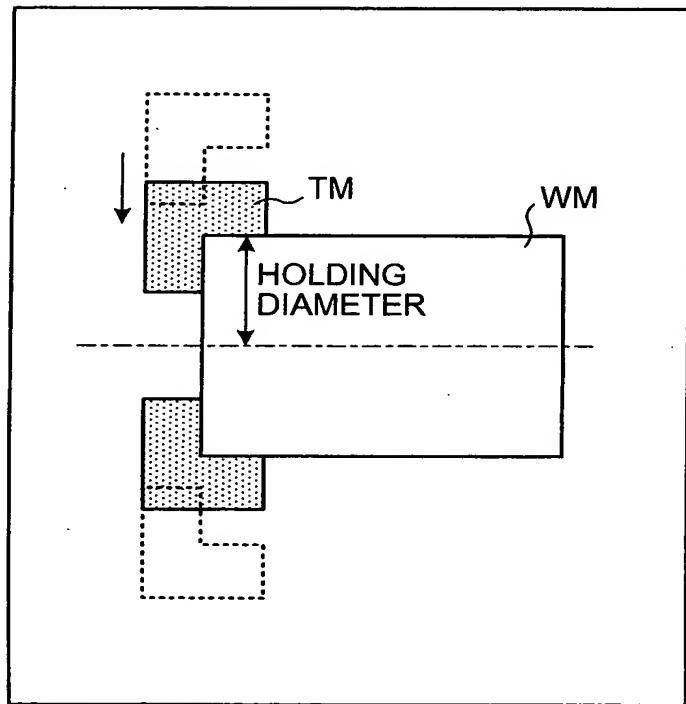


FIG.32

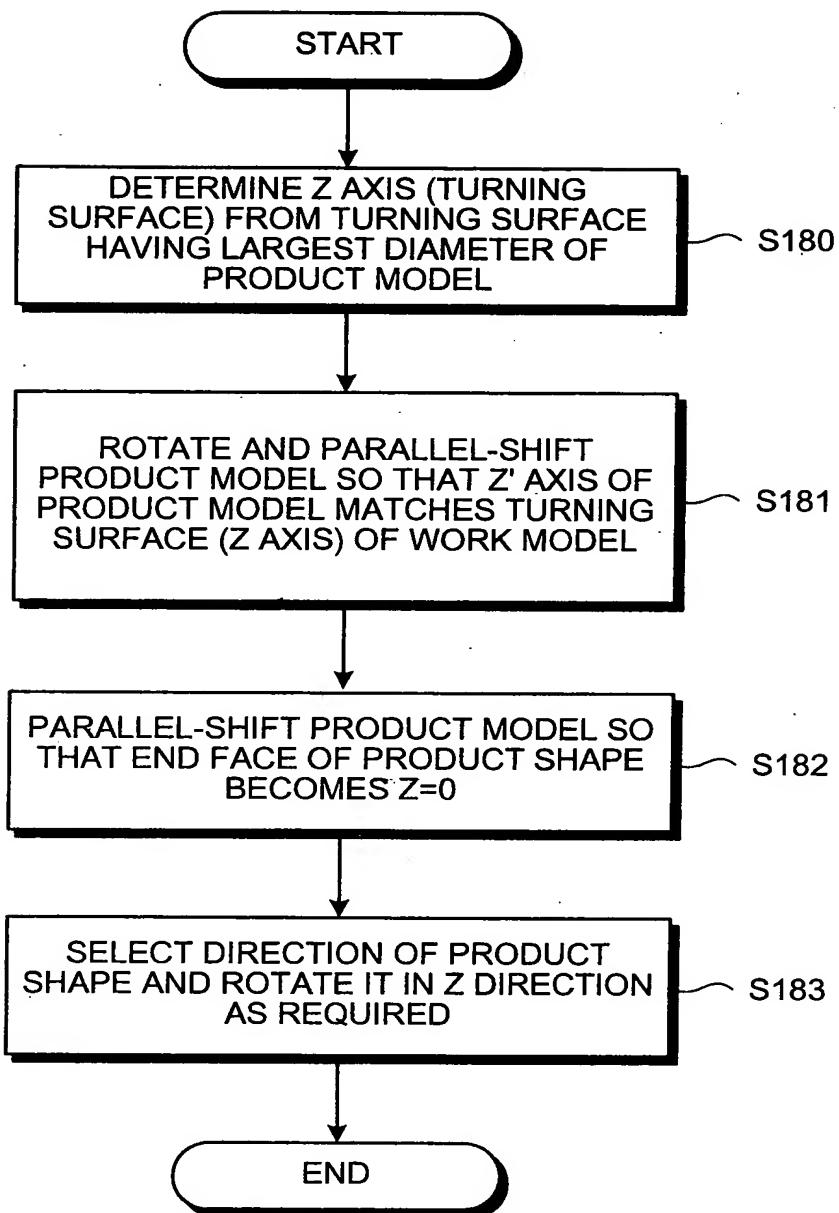
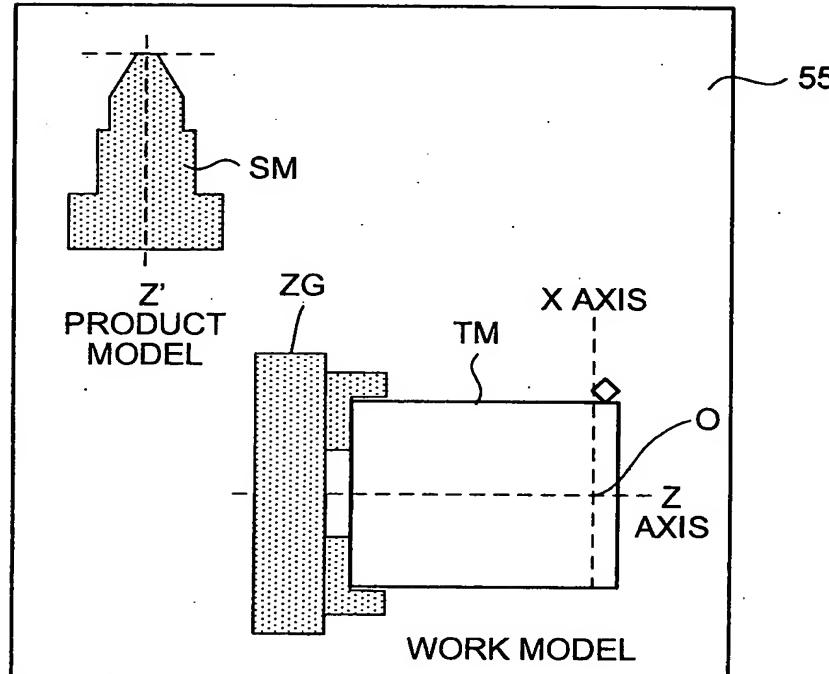


FIG.33

( a )



( b )

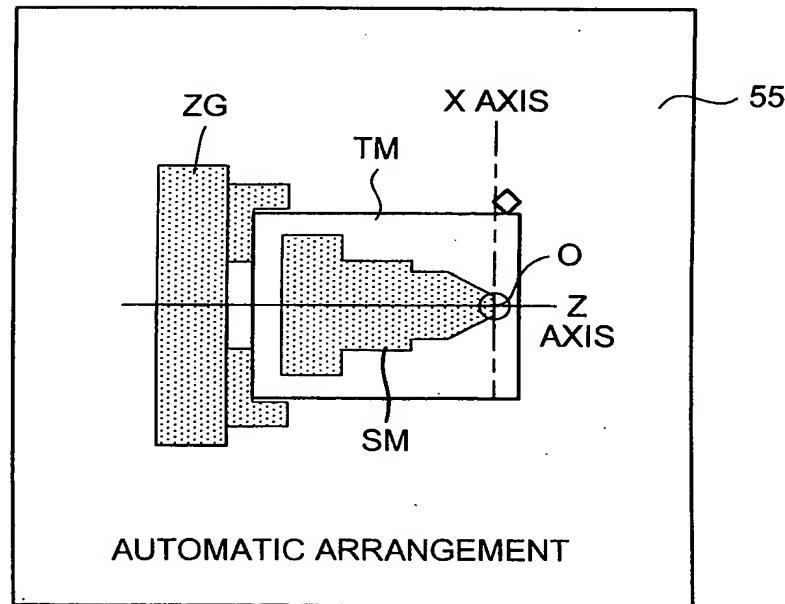


FIG.34A

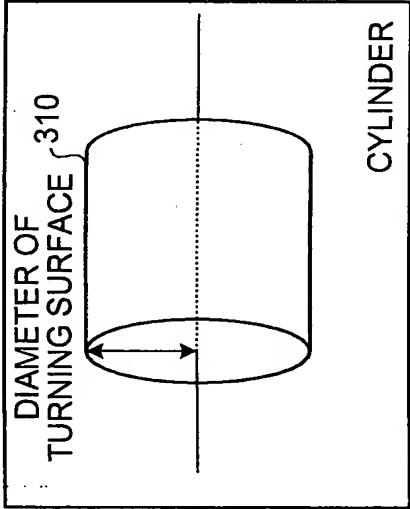


FIG.34B

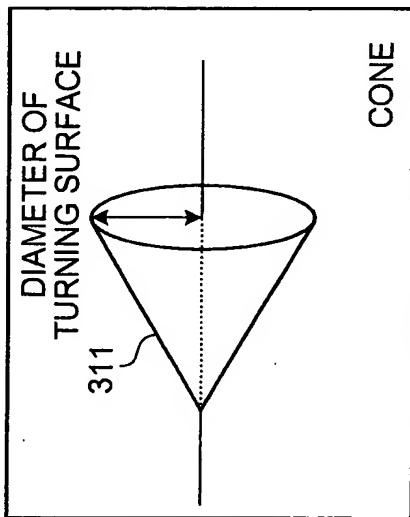


FIG.34E

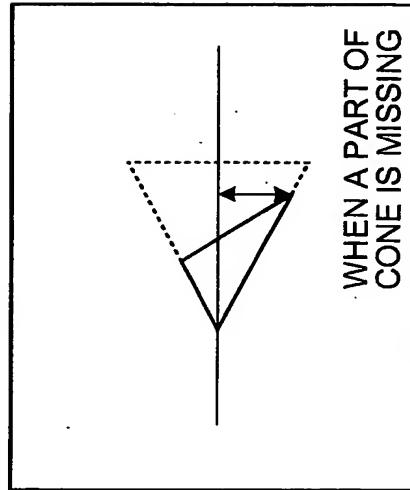


FIG.34C

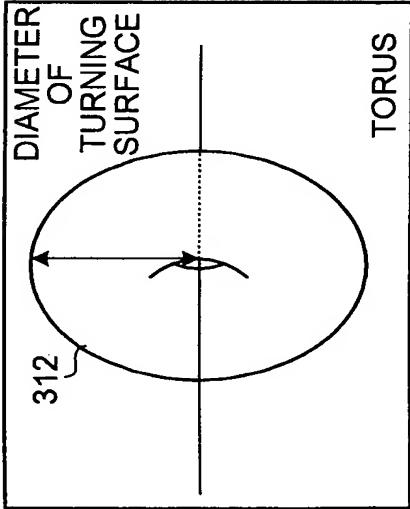


FIG.34D

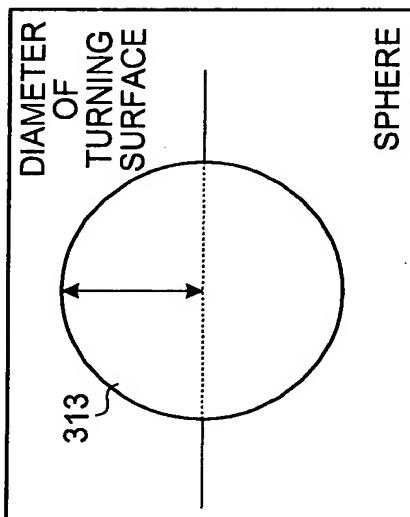


FIG.35

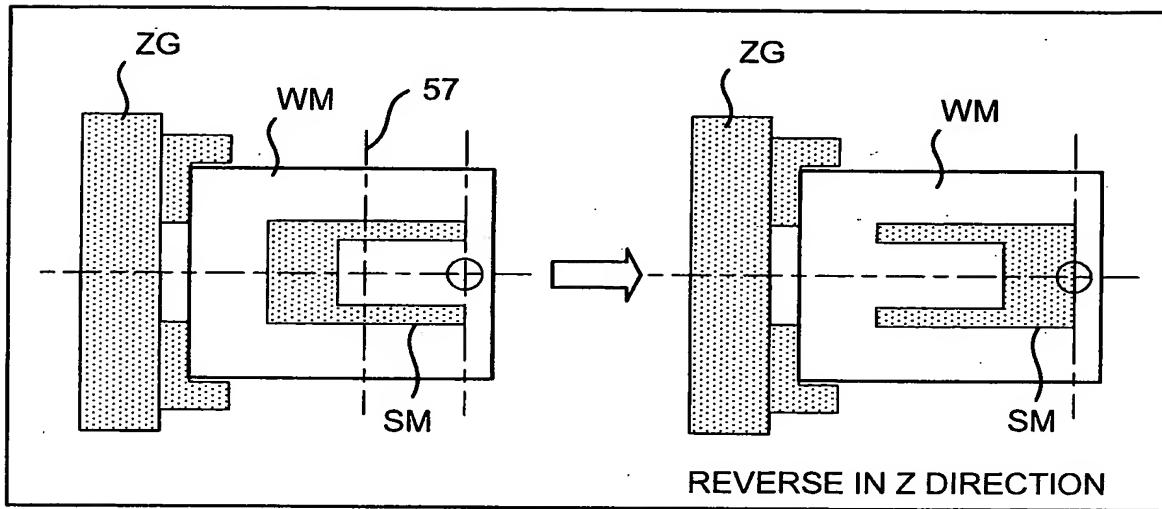


FIG.36

X-AXIS PARALLEL SHIFT	Y-AXIS PARALLEL SHIFT	Z-AXIS PARALLEL SHIFT	X-AXIS ROTATION	Y-AXIS ROTATION	Z-AXIS ROTATION	FINISH SHAPE SHIFT	
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FIG.37

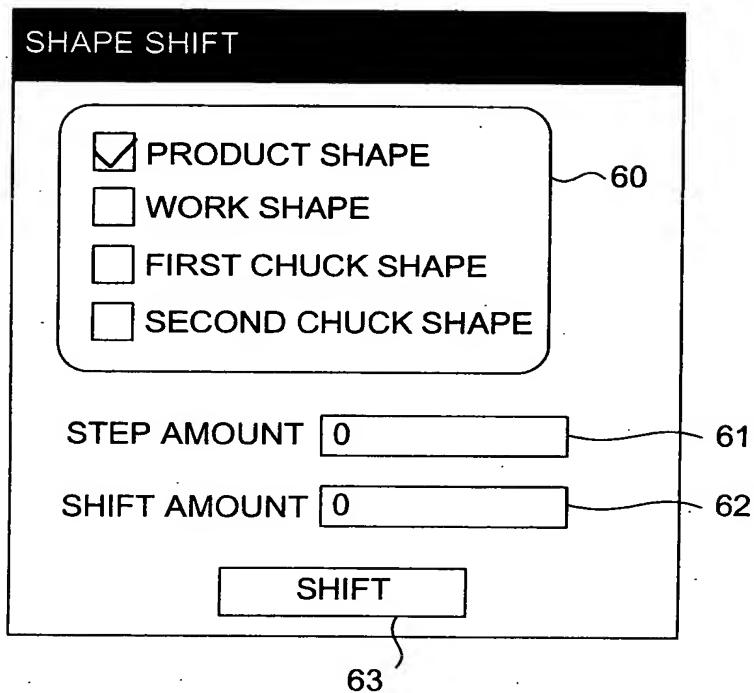


FIG.38

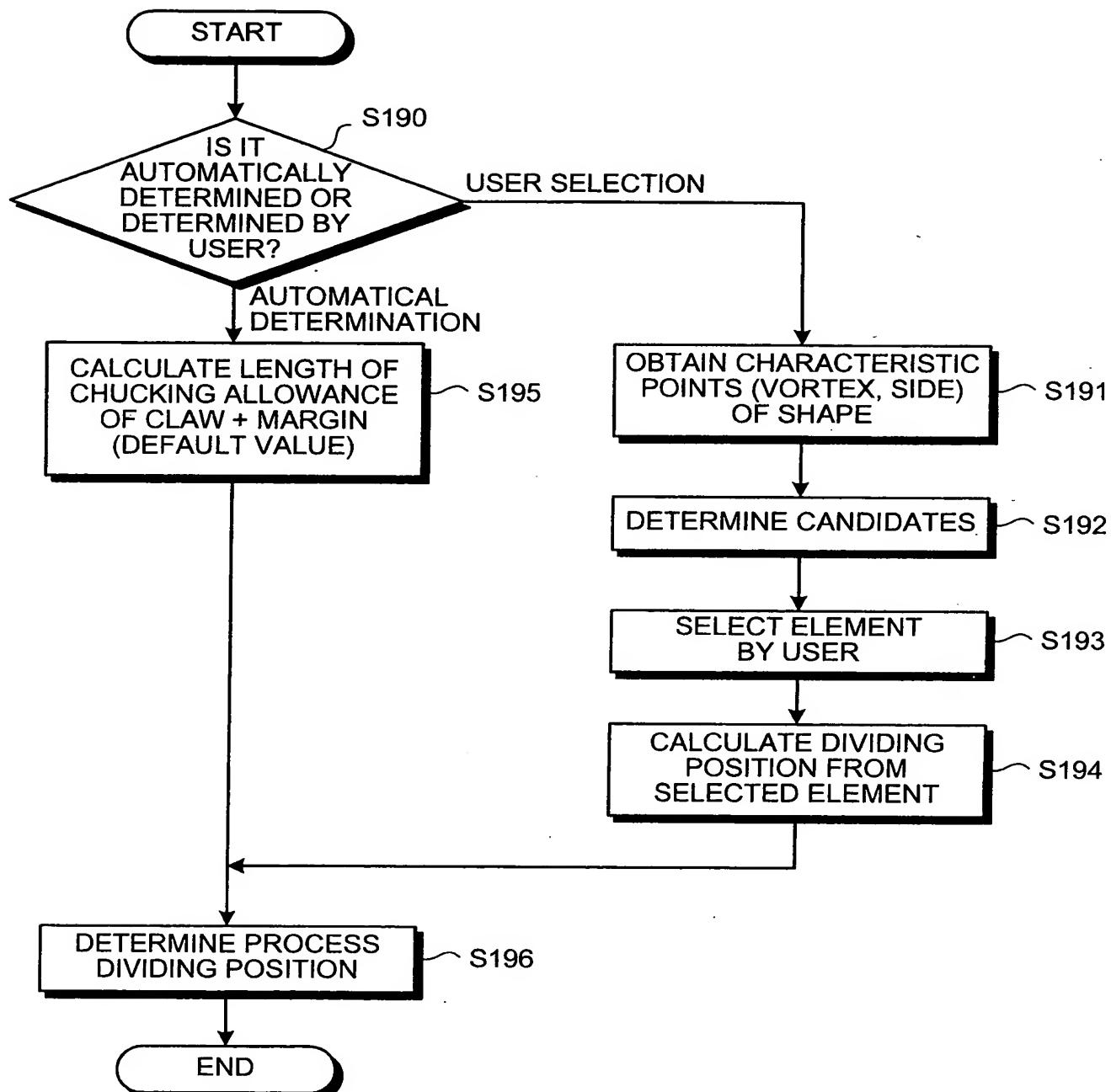


FIG.39

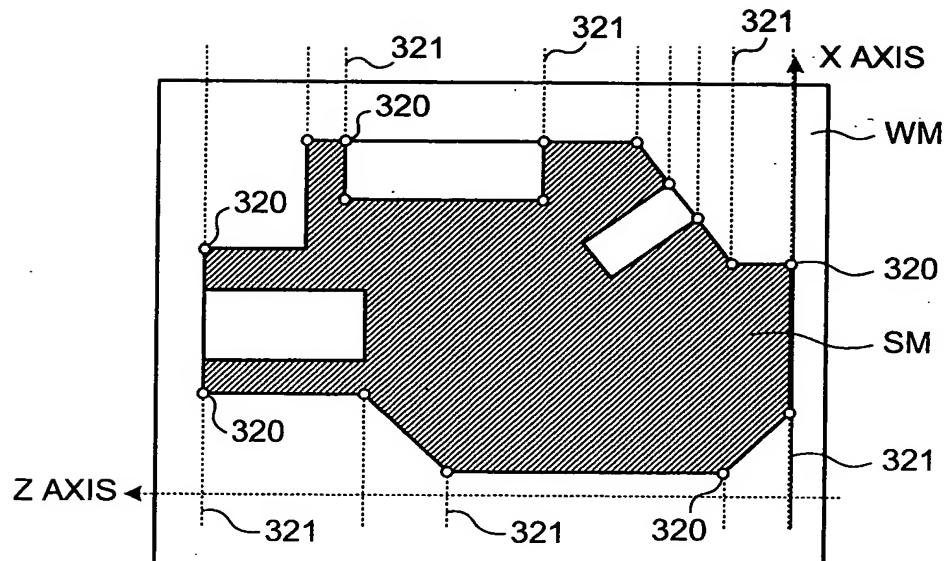


FIG.40

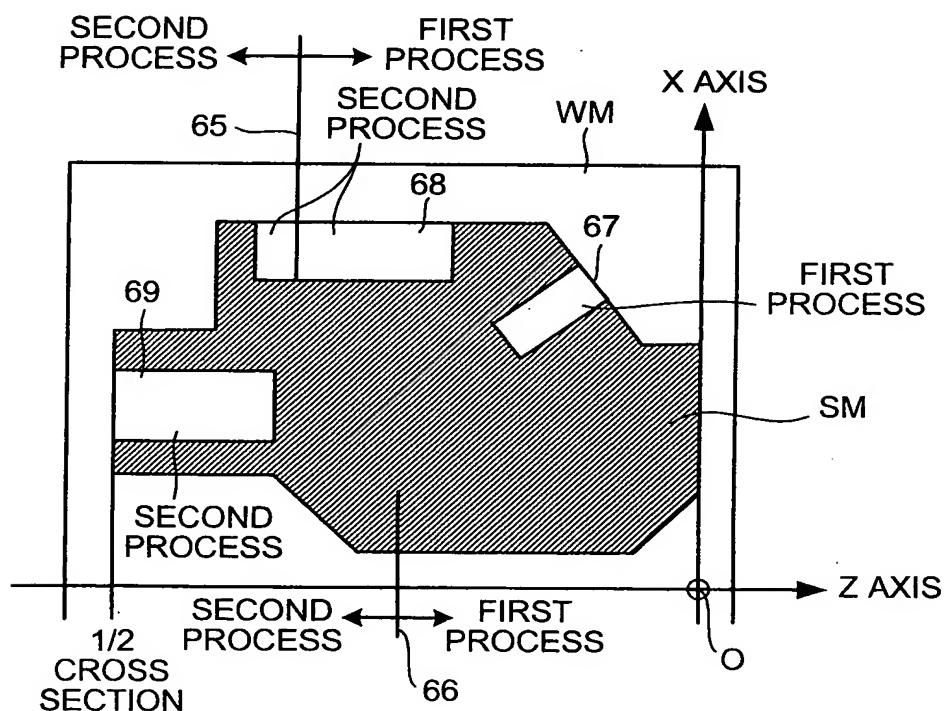
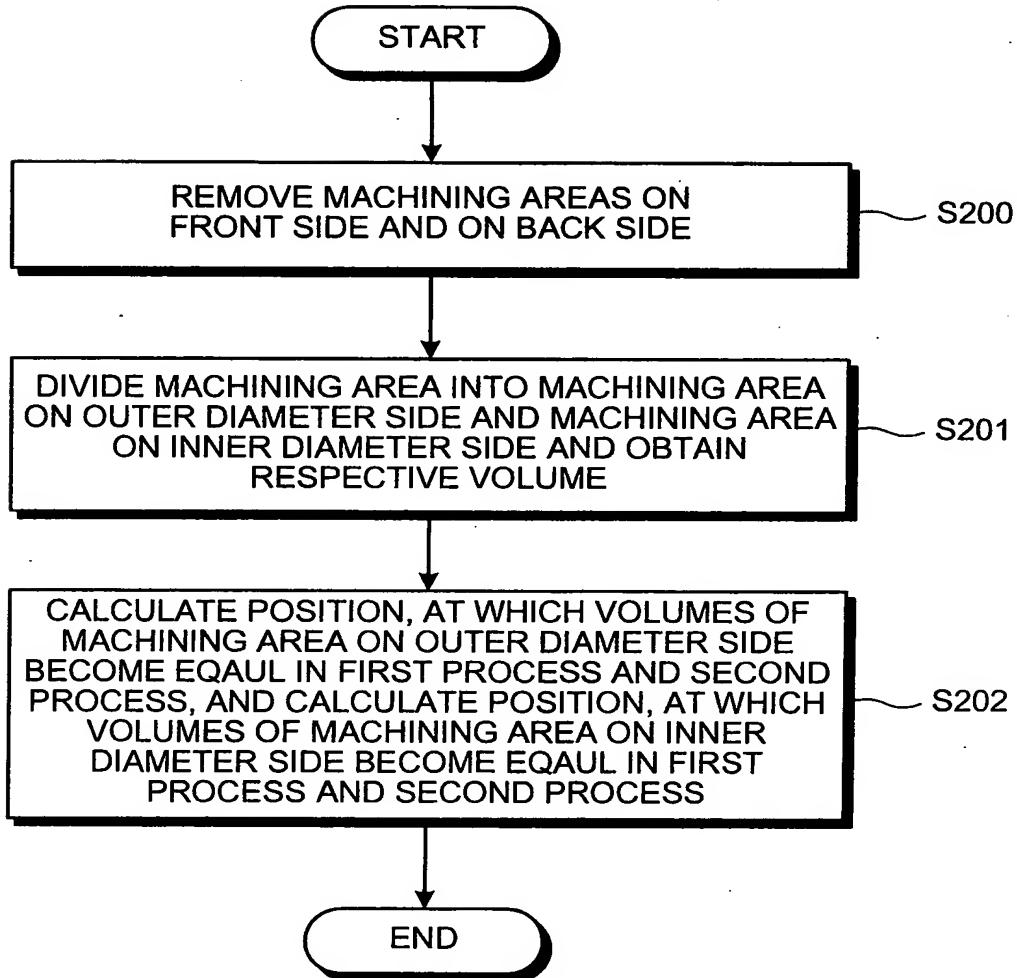


FIG.41



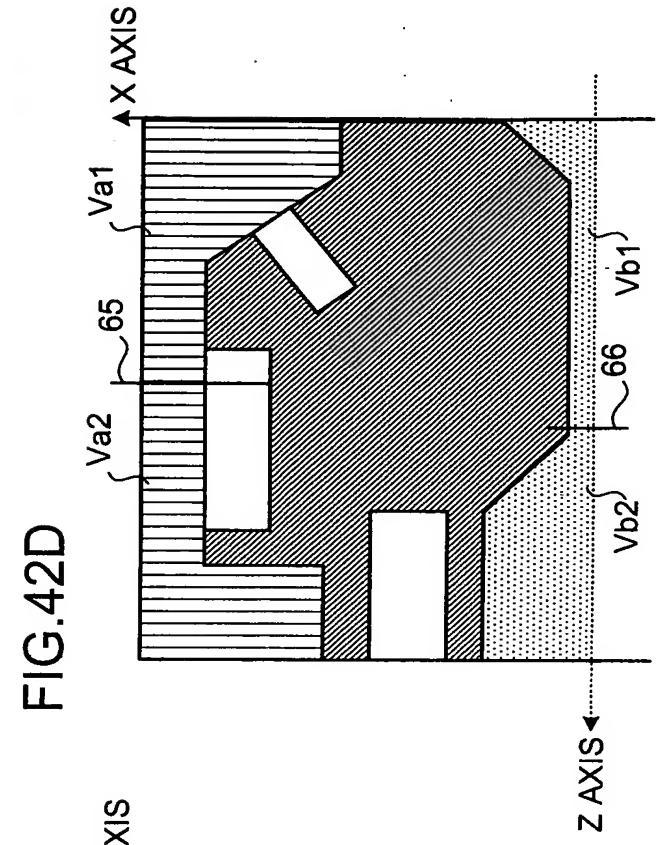
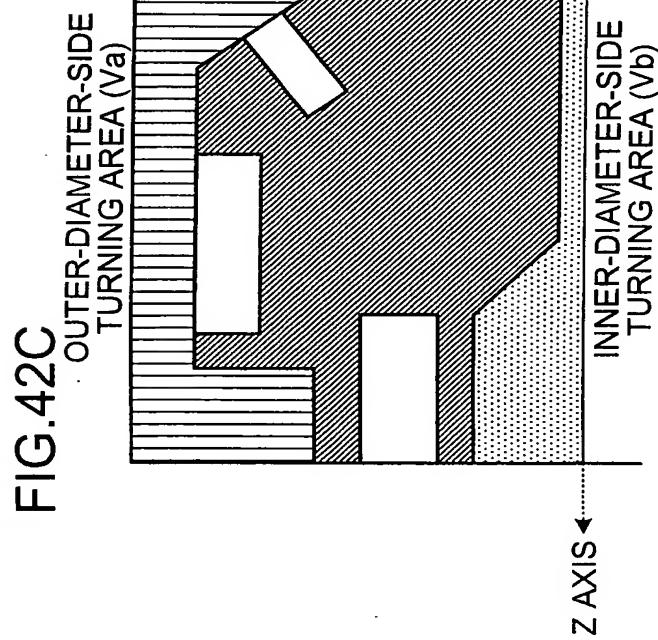
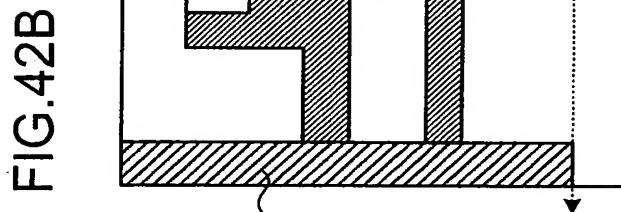
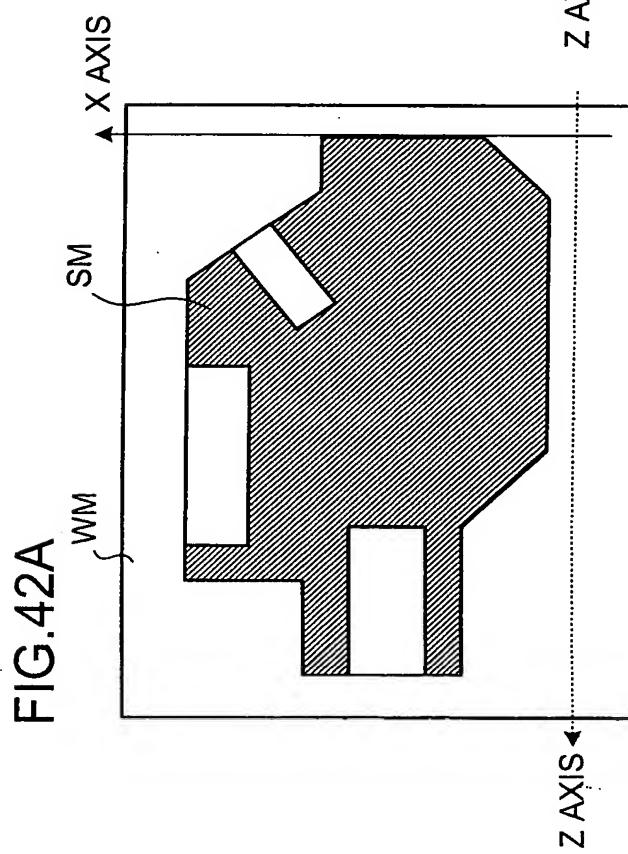
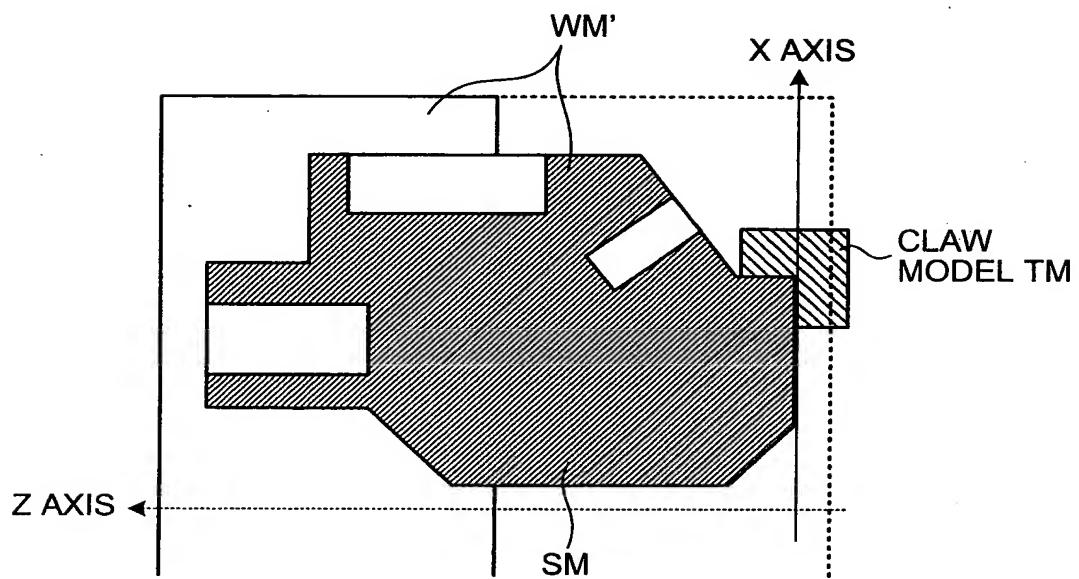
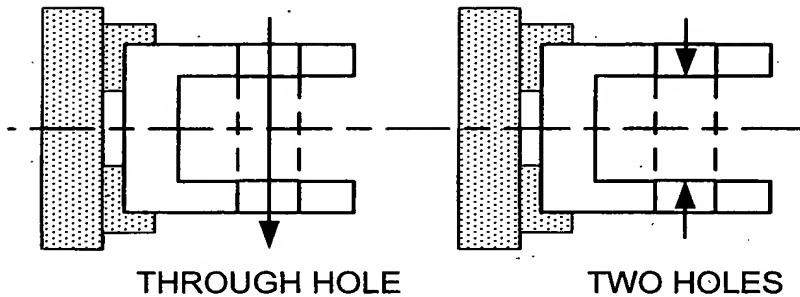


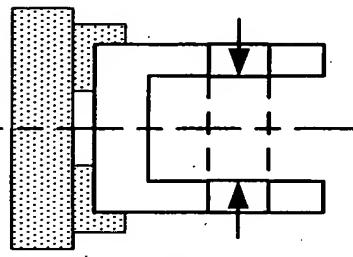
FIG.43



**FIG.44A**



**FIG.44B**



**FIG.45**

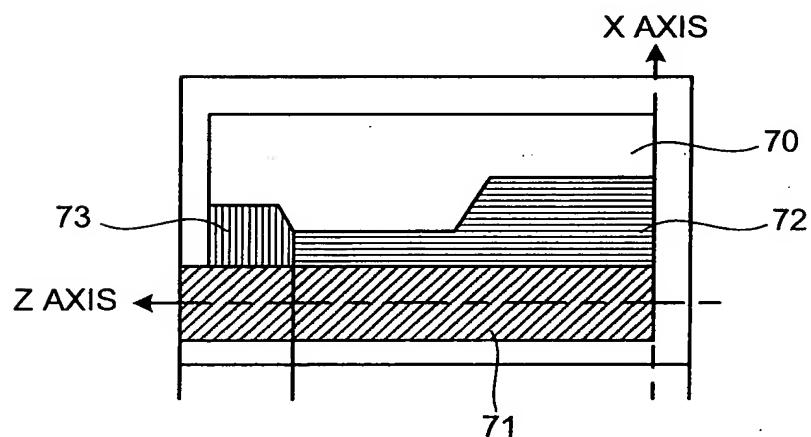


FIG.46

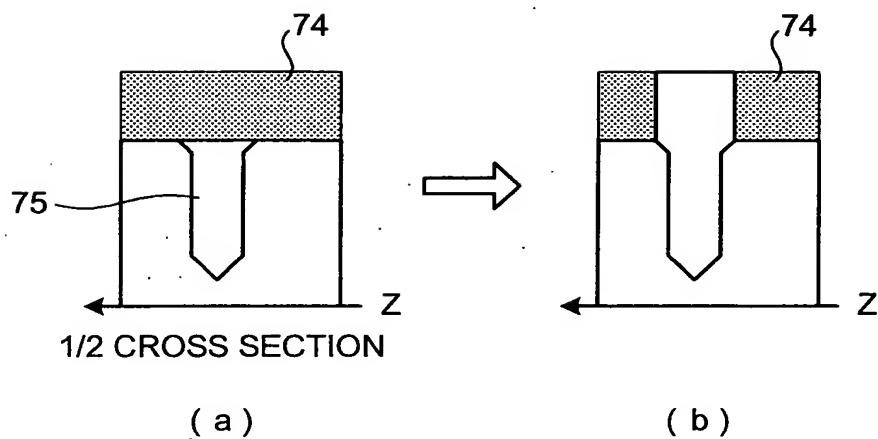


FIG.47

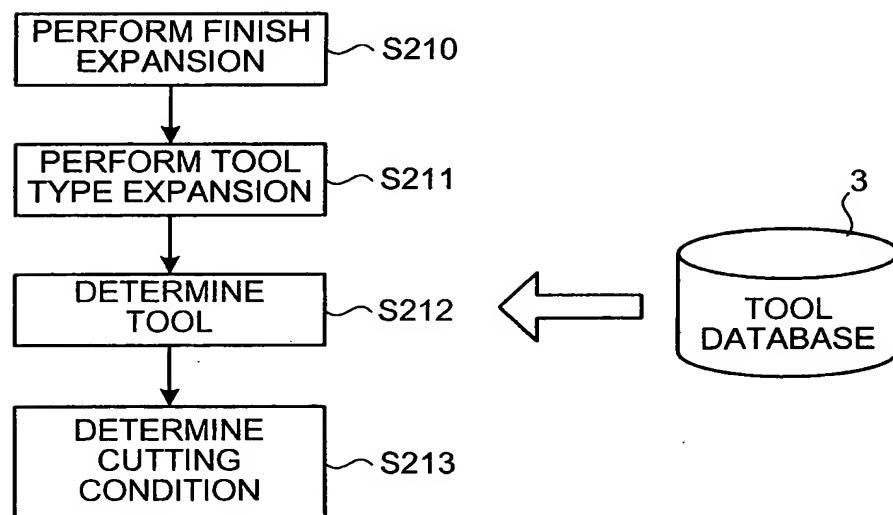


FIG.48

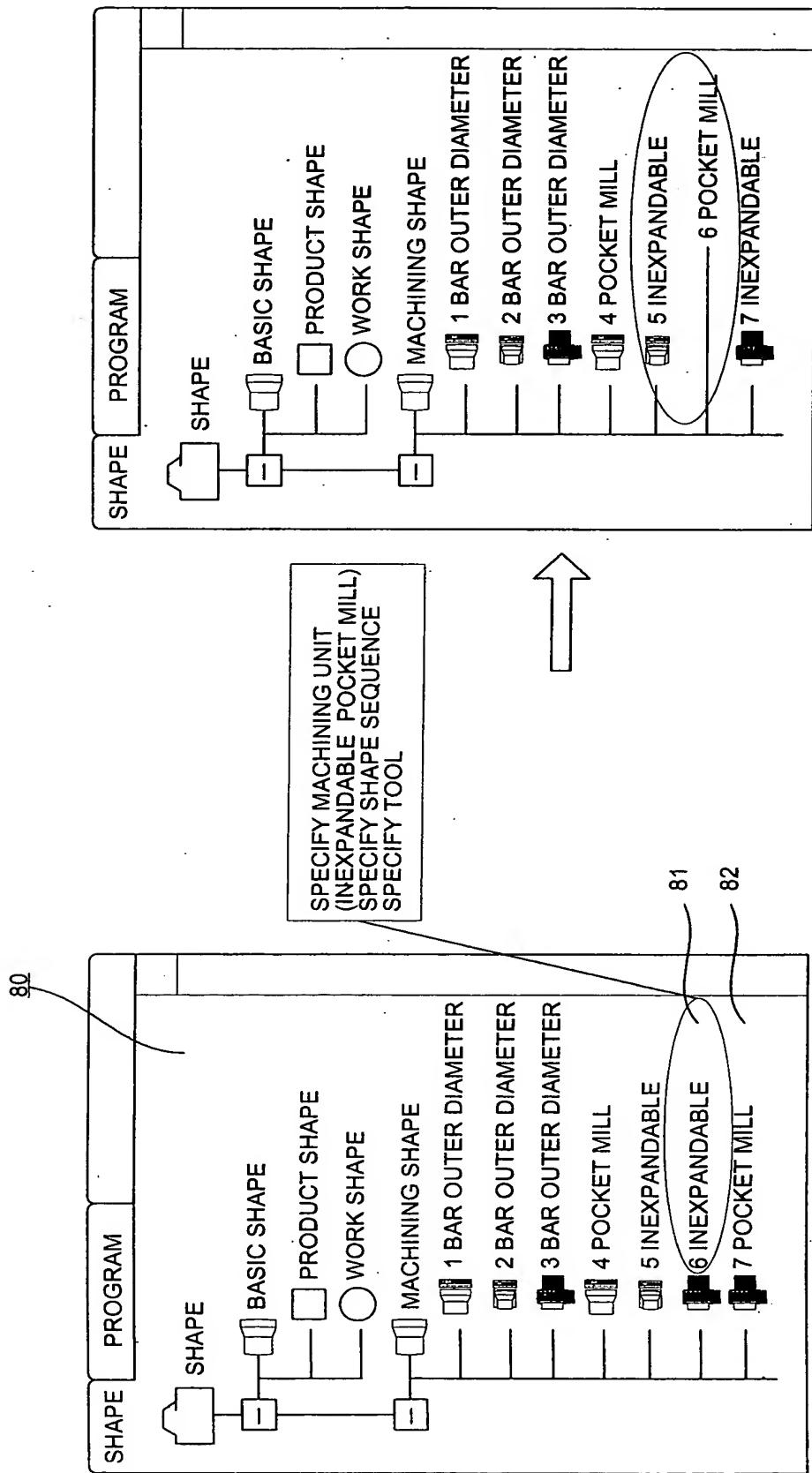


FIG.49

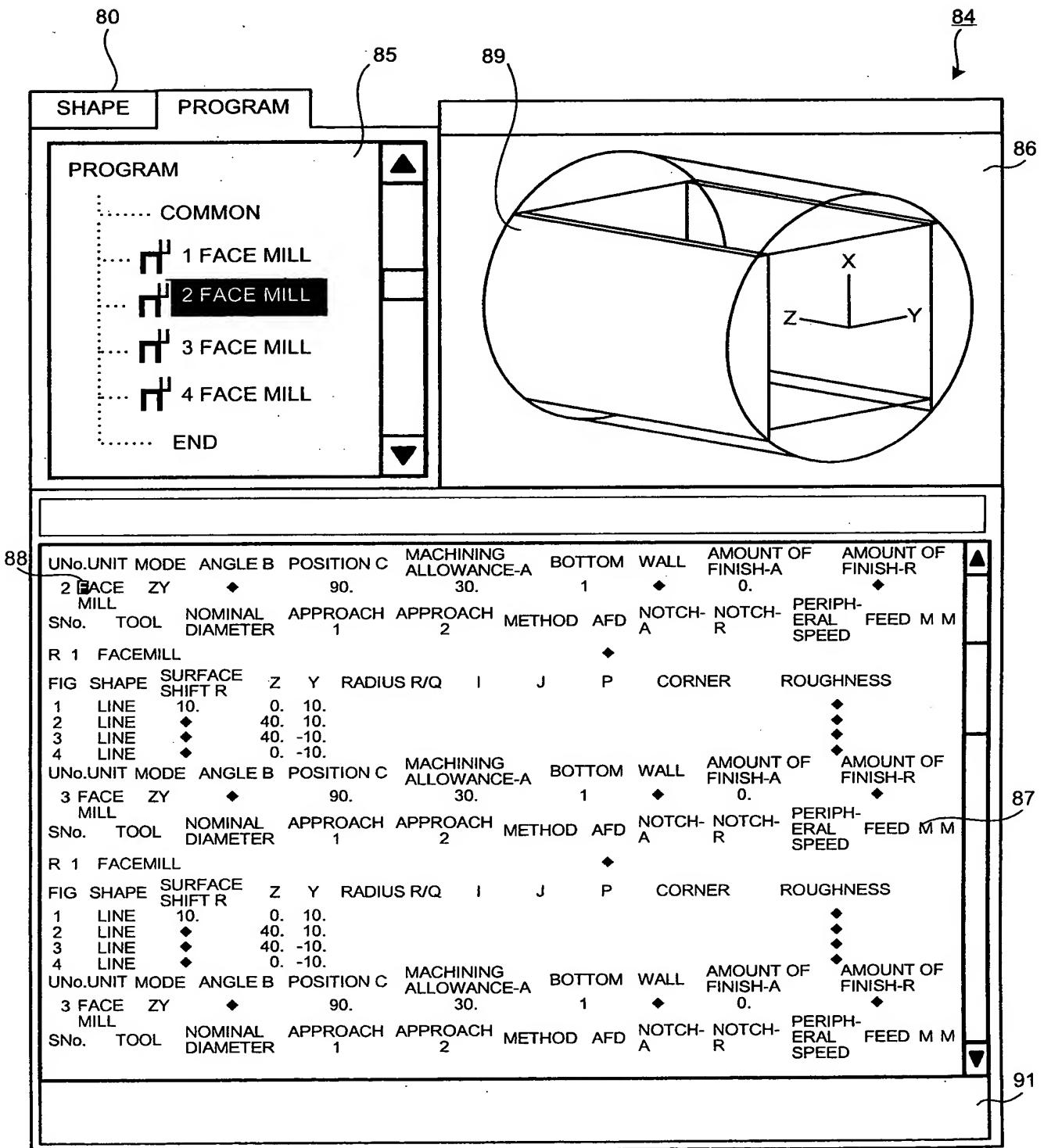


FIG.50

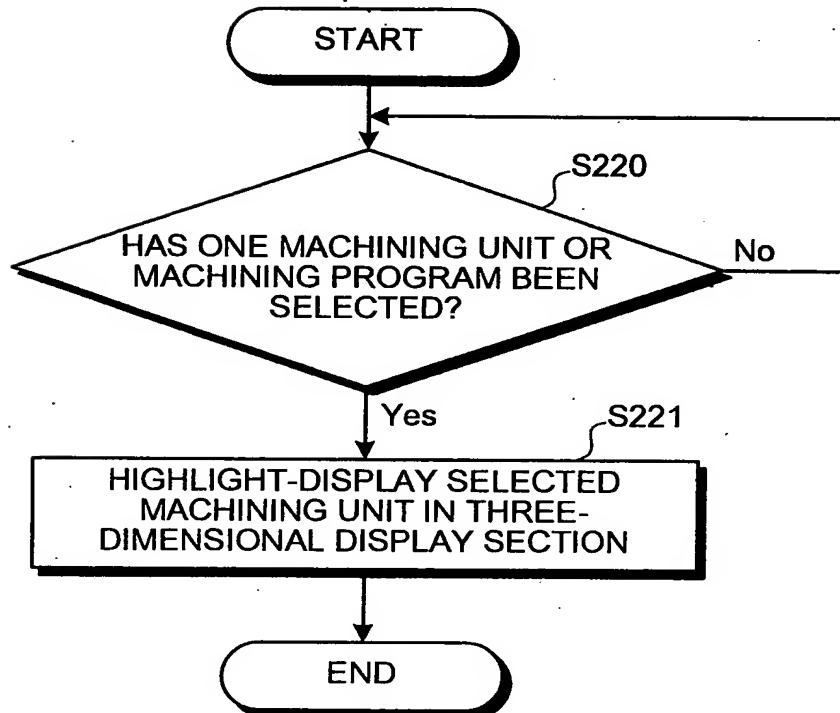


FIG.51A

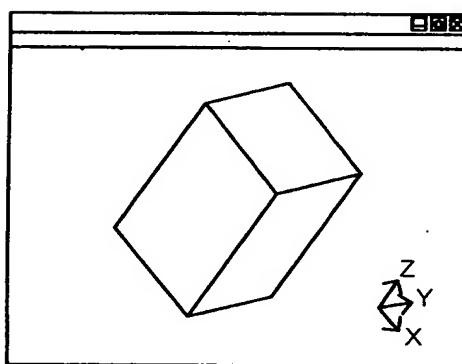


FIG.51B

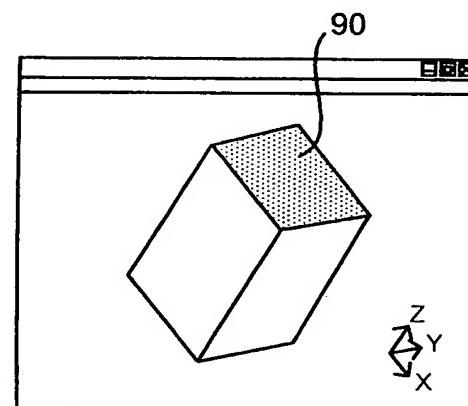


FIG.52

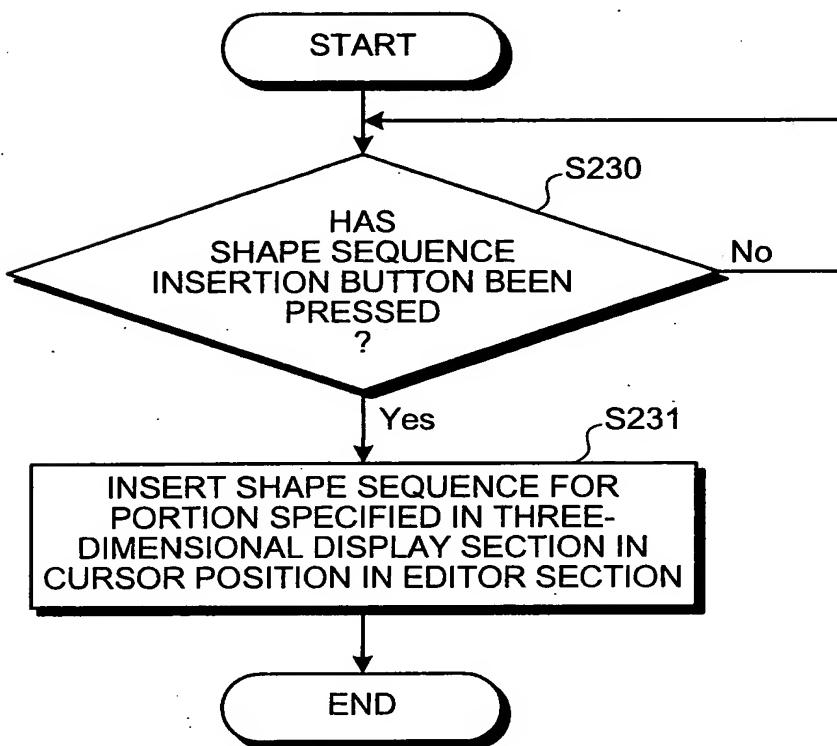


FIG.53

UNIT	INEXPANDABLE FIG SHAPE	MODE Y SURFACE SHIFT Z	SURFACE SHIFT R	X	Y	RADIUS R/	I	J	ANGLE B	ANGLE C
1	LINE (SUPPORT)	0	0	18.487	-29.602		0	0	◆	◆◆◆◆
2	LINE	◆	◆	18.487	-18.5		◆	◆	◆	◆◆◆◆
3	LINE	◆	◆	-18.487	-18.5		◆	◆	◆	◆◆◆◆
4	LINE	◆	◆	-18.487	-29.602		◆	◆	◆	◆◆◆◆
5	LINE	◆	◆	18.487	-29.602		◆	◆	◆	◆◆◆◆

FIG.54

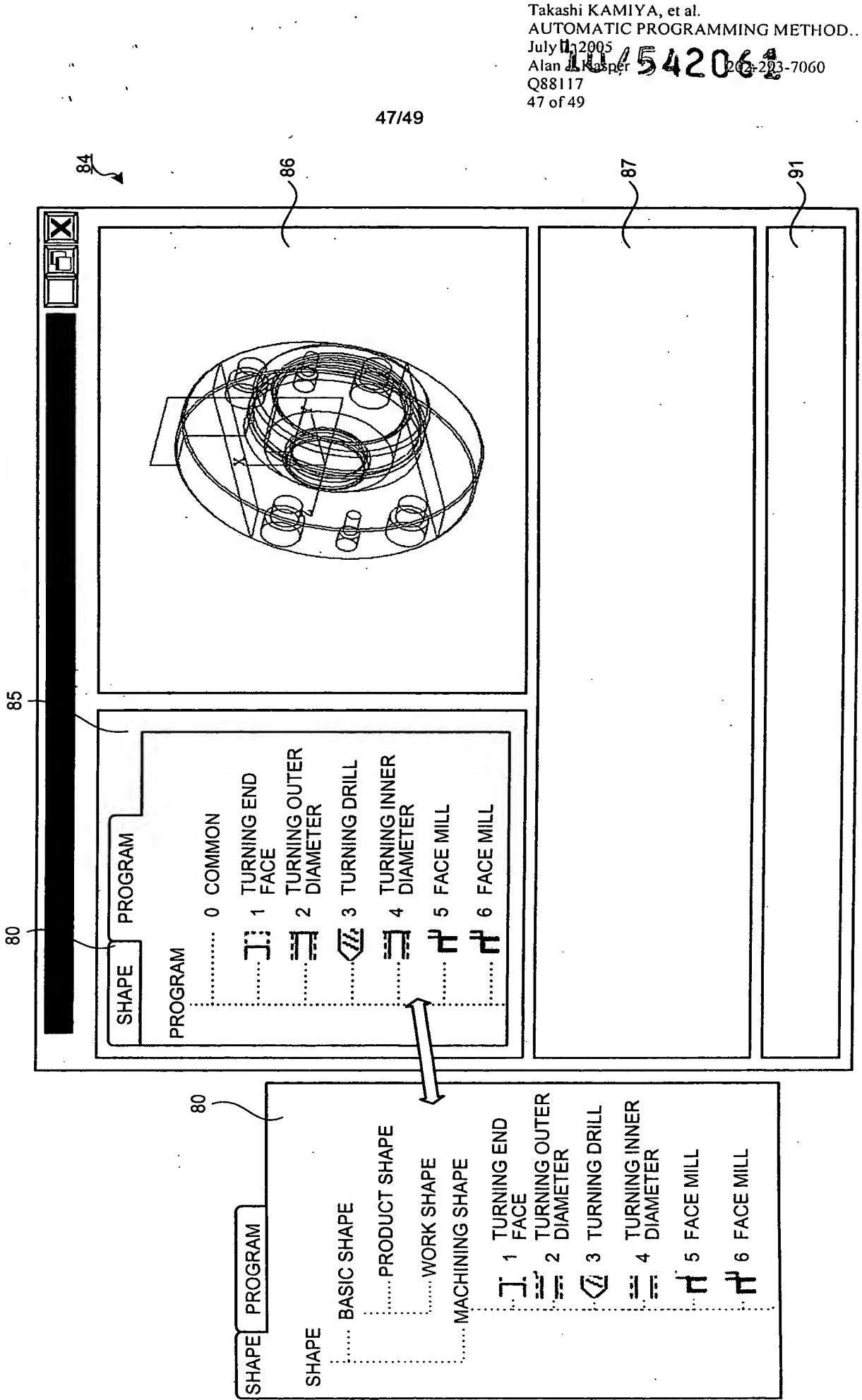


FIG.55

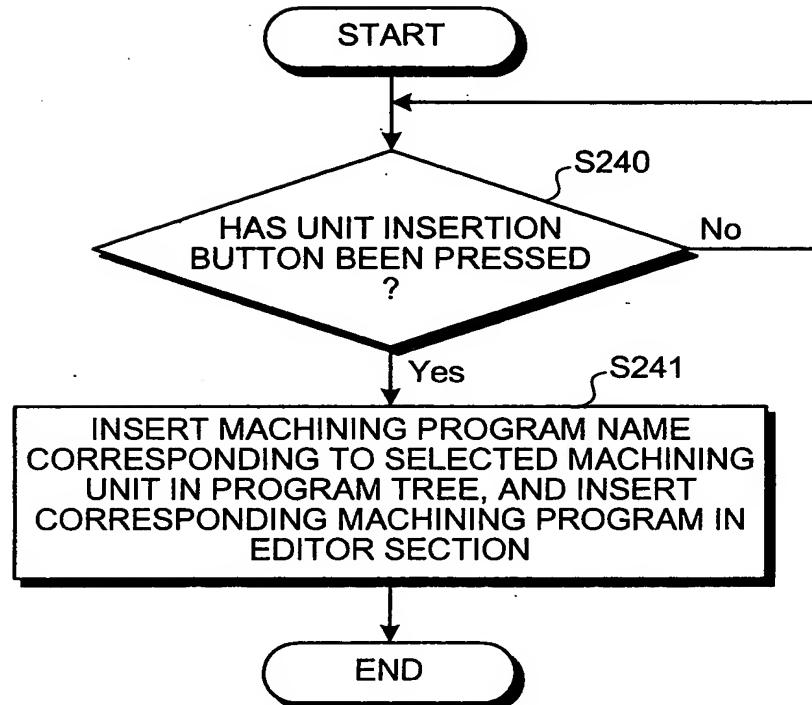


FIG.56

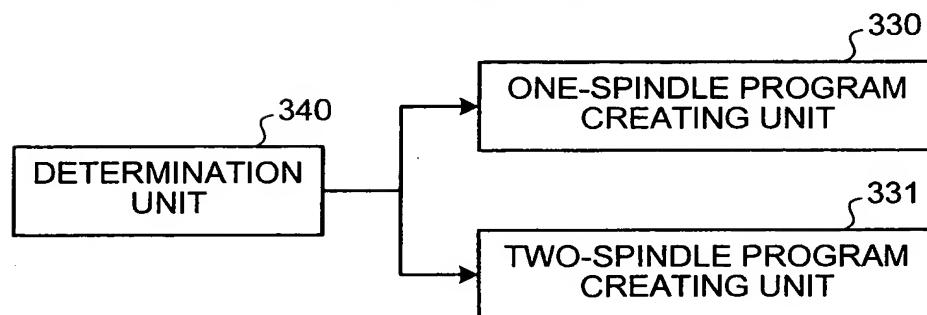


FIG.57

